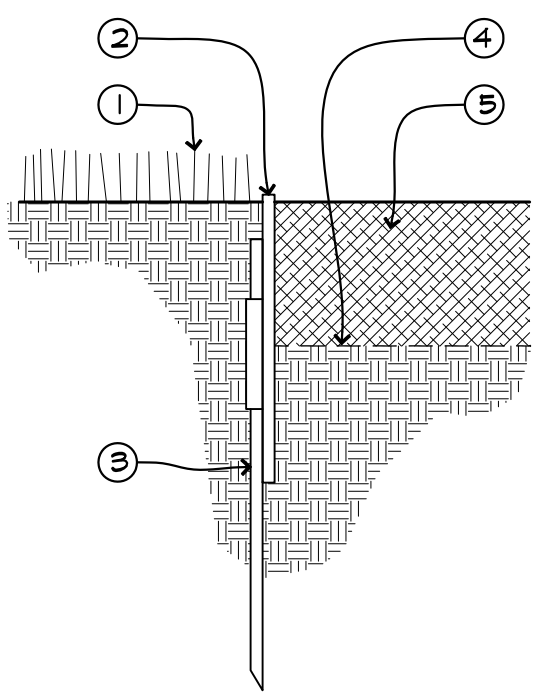


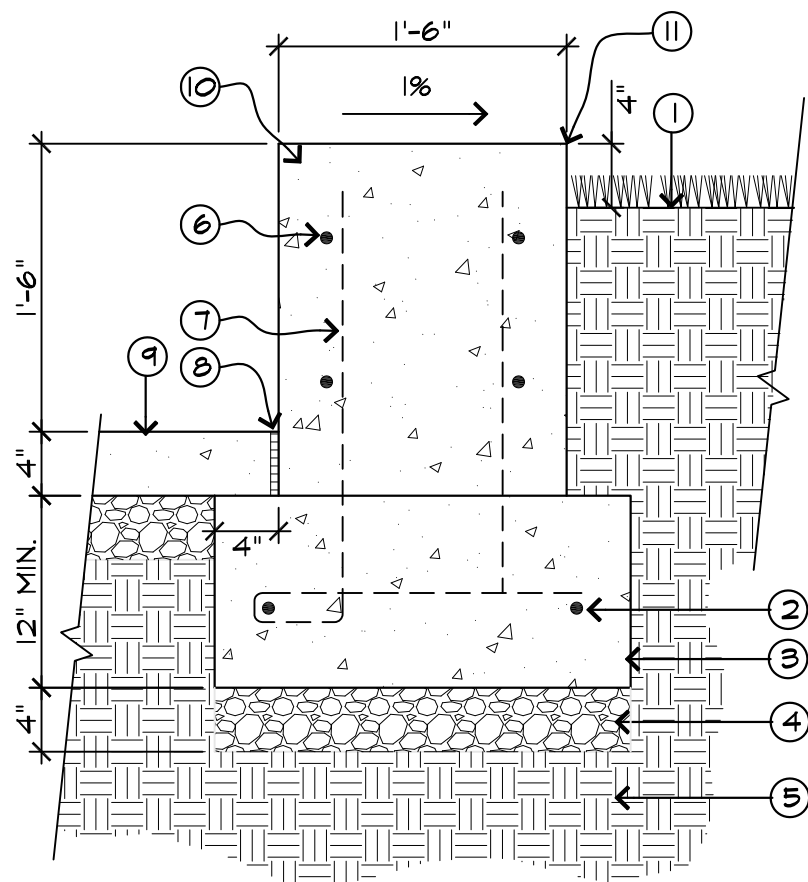
- 1 CONCRETE SLAB - FINISH PER SPECIFICATIONS
2 #4 REBAR, 1'-6" LONG AT 2'-0" O.C., WRAP ONE END WITH FELT
3 6"x6", 10x10 WPM
4 COMPACTED CLASS II AGGREGATE BASE PER SOILS REPORT
5 PRE-MOLDED JOINT FILLER
6 COMPACTED SUBGRADE
7 SEALANT
8 BACKER ROD

1 CONCRETE PAVEMENT SCALE: NTS
012 - CONCPAV



- 1 PLANTING AREA
2 RYERSON STEEL HEADER OR APPROVED EQUAL - 1/2" X 4" WITH STAKE PER MANUFACTURER'S SPECIFICATIONS
3 STEEL STAKE
4 WEED BARRIER
5 3" MULCH/PEBBLE LAYER, SEE PLAN FOR SPECIFIC MATERIAL

2 STEEL HEADER SCALE: 3" = 1'-0"
004 - header01.dwg



- 1 FINISHED GRADE
2 HORIZONTAL #4 REBAR 18" O.C.
3 CONCRETE FOOTING
4 COMPACTED CLASS 2 AGGREGATE BASE
5 COMPACTED SUBGRADE PER GEOTECH REPORT
6 #4 REBAR 18" O.C.
7 TWO #4 REBAR 12" O.C.
8 EXPANSION JOINT
9 CONCRETE PAVING
10 POURED-IN-PLACE CONCRETE WALL, SEE NOTES
11 TOOLED EDGE
- NOTES:
1. 4000 PSI CONCRETE
2. ALL CORNERS 3/8" RADIUS
3. LIGHT-MEDIUM SANDBLAST FINISH, ALL EXPOSED SURFACES
4. DAVIS INTEGRAL COLOR #5237, SAN DIEGO BUFF

3 CONCRETE SEAT WALL SCALE: 1" = 1'-0"
012 - SEAT_WALL

LAYOUT PLAN LEGEND

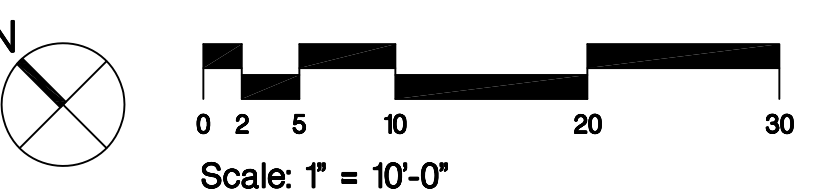
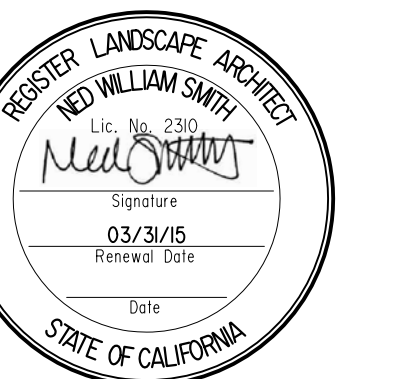
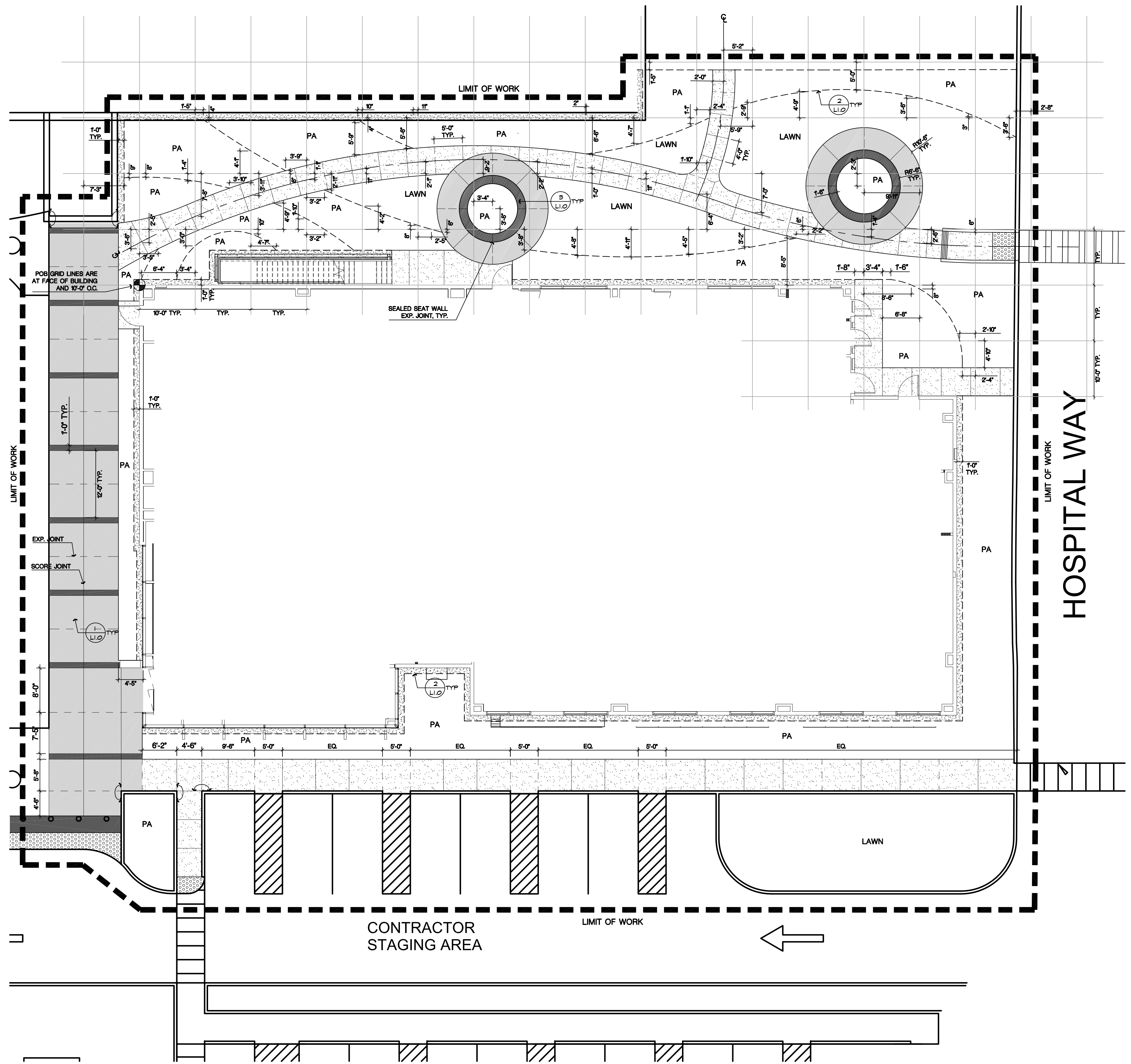
- Concrete Seat Wall, see detail #3, this sheet
- Steel Landscape Header, see detail #2, this sheet
- Concrete Type 1
Davis Integral Colors #641, Pebble
Light Sandblast Finish
See detail #1, this sheet
- Concrete Type 2
Davis Integral Colors #8084, Dark Gray (Carbon)
Light Sandblast Finish
See detail #1, this sheet
- Concrete Type 3
Davis Integral Colors #5237, San Diego Buff
Light Sandblast Finish
See detail #1, this sheet
- Tactile Warning Pavers
See civil drawings
- Maintenance Strip
See detail #2, this sheet
15" Dia. Lin Creek Pebble
Lyngso Garden Materials
T: 650384.730

Layout and Materials Legend

- Begin horizontal layout
- Align
- Centerline

General Notes

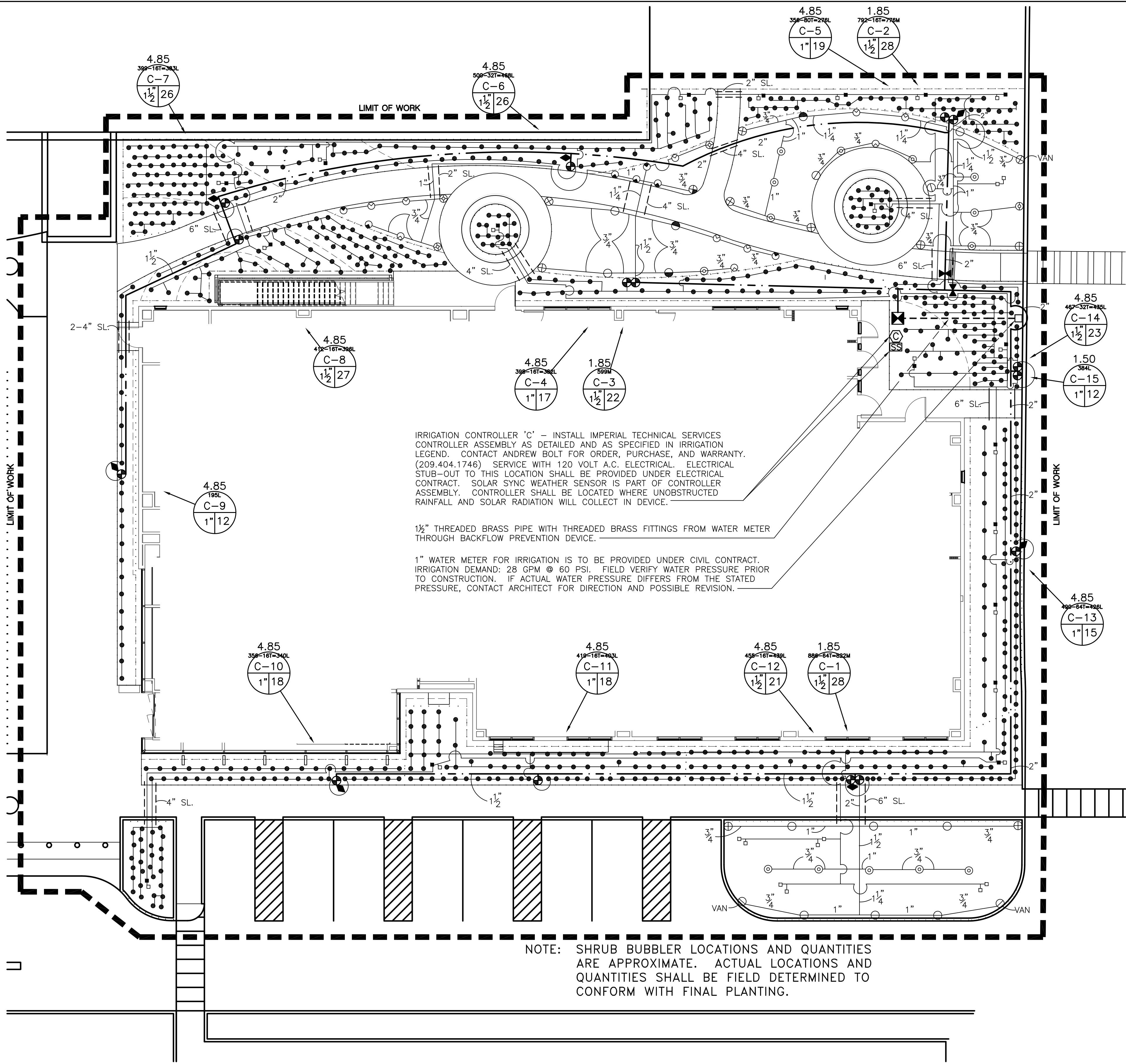
- For curbs, parking, grading and utility information not shown on these sheets, refer to architectural and civil drawings.
- Refer to standard specifications and details for additional detailed information.
- Contractor shall verify location of all utilities and subsurface structures prior to construction and shall be held liable for all damages incurred. Bring any discrepancies or conflicts to the attention of the architect prior to proceeding.
- Contractor shall note and install sleeve locations shown on irrigation plan.
- Any dimensions are referenced from the face of curb, wall and/or face of building.



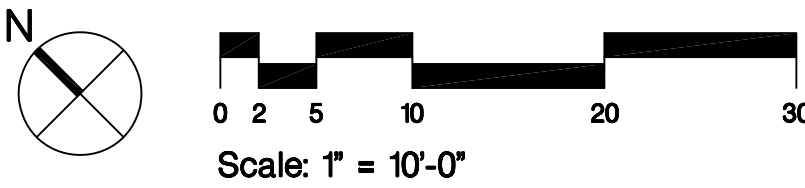
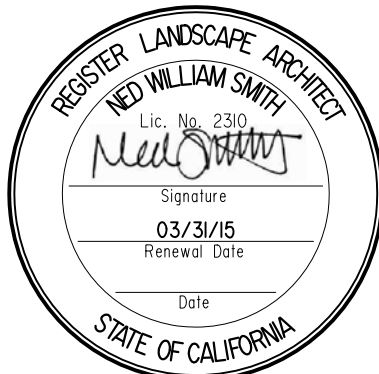
CONSULTANTS: SMITH+SMITH P: (415) 543-0332 F: (415) 543-9740 1501 North Point Street San Francisco, CA 94123 www.smith2.com		KEY PLAN	ARCHITECT/ENGINEERS: MEI architecture + interiors 229 9TH STREET, SUITE 201 - SAN FRANCISCO, CA 94103 T: (415) 462-7376 F: (415) 462-7339 www.meribethsmith.com	Drawing Title LANDSCAPE LAYOUT PLAN	Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)	Project Number 612-111	Office of Facilities Management Department of Veterans Affairs
Issues & Revisions:				Approved: Project Director	Location VANCHCS - MATHER, CA	Building Number	
Date				Date APRIL 22, 2014	Checked MMC	Drawn MMC/BF	




three inches = one foot
one and one half inches = one foot
one inch = one foot
three quarters inch = one foot
one half inch = one foot
one half inch = one foot
one quarter inch = one foot
one eighth inch = one foot
one eighth inch = one foot

BUBBLER LATERAL PIPE SIZING		
QTY OF BUBBLERS	LINE SIZE	
1 - 10	3/4"	
11 - 20	1"	
21 - 35	1 1/4"	
36 - 60	1 1/2"	
61 +	2"	



NOTE: SHRUB BUBBLER LOCATIONS AND QUANTITIES ARE APPROXIMATE. ACTUAL LOCATIONS AND QUANTITIES SHALL BE FIELD DETERMINED TO CONFORM WITH FINAL PLANTING.



		CONSULTANTS: SMITH+SMITH P: (415) 543-0332 F: (415) 543-9740 1501 North Point Street San Francisco, CA 94123 www.smith2.com	KEY PLAN 	ARCHITECT/ENGINEERS:  <small>209 9TH STREET, SUITE 201, SAN FRANCISCO, CA 94103 T: (415) 462-7376 F: (415) 462-7339 www.merichardson.com</small>	Drawing Title IRRIGATION PLAN	Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)	Project Number 612-111	Office of Facilities Management  Department of Veterans Affairs	
					Approved: Project Director	Location VANCHCS - MATHER, CA	Building Number		Drawing Number L2.0 Dwg. -- of --
					Date APRIL 22, 2014	Checked MMC	Drawn MMC/BF		
Issues & Revisions:	Date	LANDSCAPE ARCHITECTS							

IRRIGATION WATERING SCHEDULES

SPRAY IRRIGATION FOR MODERATE WATER USE TURF – VALVES:														
SPRINKLER MANUFACTURER:		HUNTER		LOCATION:		MATHER, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		1.85		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY:		0.70		HEAD GPM:		VARIES								
PLANT FACTOR:		0.60												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
	MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.00	1.60	3.40	4.10	6.50	7.50	8.10	7.10	5.20	3.40	1.50	1.00	50.50
ETO PER WEEK (INCHES):		0.231	0.370	0.785	0.947	1.501	1.732	1.871	1.640	1.201	0.785	0.346	0.231	
APPLIED ETO PER WEEK (INCHES):		0.165	0.264	0.561	0.676	1.072	1.237	1.336	1.171	0.858	0.561	0.247	0.165	
MINUTES OF WATER PER WEEK:		YEAR 1	5	9	18	22	35	40	43	38	28	18	8	5
		YEAR 2	5	8	16	20	31	36	39	34	25	16	7	5
DAYS PER WEEK:		YEAR 1	1	1	2	3	3	4	4	4	3	2	1	1
		YEAR 2	1	1	2	3	3	4	4	4	3	2	1	1
MINUTES OF WATER PER DAY:		YEAR 1	5	9	9	7	12	10	11	9	9	9	8	5
		YEAR 2	5	8	8	7	10	9	10	9	8	8	7	5
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	5	9	9	7	12	10	11	9	9	9	8	5
		YEAR 2	5	8	8	7	10	9	10	9	8	8	7	5

BUBBLER IRRIGATION FOR LOW WATER USE SHRUBS/GROUND COVER:														
SPRINKLER MANUFACTURER:		HUNTER		LOCATION:		MATHER, CALIFORNIA								
PRECIPITATION RATE (INCHES/HOUR):		4.85		HEAD SPACING:		VARIES								
IRRIGATION SYSTEM EFFICIENCY:		0.85		HEAD GPM:		0.25								
PLANT FACTOR:		0.30												
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES												
	MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL
ETO PER MONTH (INCHES):		1.00	1.60	3.40	4.10	6.50	7.50	8.10	7.10	5.20	3.40	1.50	1.00	50.50
ETO PER WEEK (INCHES):		0.231	0.370	0.785	0.947	1.501	1.732	1.871	1.640	1.201	0.785	0.346	0.231	
APPLIED ETO PER WEEK (INCHES):		0.082	0.130	0.277	0.334	0.530	0.611	0.660	0.579	0.424	0.277	0.122	0.082	
MINUTES OF WATER PER WEEK:		YEAR 1	1	2	3	4	7	8	8	7	5	3	2	1
		YEAR 2	1	1	3	4	6	7	7	6	5	3	1	1
DAYS PER WEEK:		YEAR 1	1	1	1	2	2	3	3	3	2	1	1	1
		YEAR 2	1	1	1	2	2	3	3	3	2	1	1	1
MINUTES OF WATER PER DAY:		YEAR 1	1	2	3	2	3	3	3	2	3	3	2	1
		YEAR 2	1	1	3	2	3	2	2	2	3	1	1	1
CYCLES PER DAY:		YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1
		YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1
MINUTES PER CYCLE:		YEAR 1	1	2	3	2	3	3	3	2	3	3	2	1
		YEAR 2	1	1	3	2	3	2	2	2	3	1	1	1

BUBBLER IRRIGATION FOR LOW WATER USE TREES															
SPRINKLER MANUFACTURER:		HUNTER		LOCATION:		MATHER, CALIFORNIA									
PRECIPITATION RATE (INCHES/HOUR):		1.50		HEAD SPACING:		VARIES									
IRRIGATION SYSTEM EFFICIENCY:		0.85		HEAD GPM:		2 X .25									
PLANT FACTOR:		0.30													
YEAR 2 REDUCTION AMOUNT:		-10% OF YEAR 1 (ESTABLISHMENT) RUN TIME MINUTES													
	MONTH:	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	TOTAL	
ETO PER MONTH (INCHES):		1.00	1.60	3.40	4.10	6.50	7.50	8.10	7.10	5.20	3.40	1.50	1.00	50.50	
ETO PER WEEK (INCHES):		0.231	0.370	0.785	0.947	1.501	1.732	1.871	1.640	1.201	0.785	0.346	0.231		
APPLIED ETO PER WEEK (INCHES):		0.082	0.130	0.277	0.334	0.530	0.611	0.660	0.579	0.424	0.277	0.122	0.082		
MINUTES OF WATER PER WEEK:	YEAR 1	3	5	11	13	21	24	26	23	17	11	5	3		
	YEAR 2	3	5	10	12	19	22	24	21	15	10	4	3		
DAYS PER WEEK:	YEAR 1	1	1	1	2	2	3	3	3	2	1	1	1		
	YEAR 2	1	1	1	2	2	3	3	3	2	1	1	1		
MINUTES OF WATER PER DAY:	YEAR 1	3	5	11	7	11	8	9	8	8	11	5	3		
	YEAR 2	3	5	10	6	10	7	8	7	8	10	4	3		
CYCLES PER DAY:	YEAR 1	1	1	1	1	1	1	1	1	1	1	1	1		
	YEAR 2	1	1	1	1	1	1	1	1	1	1	1	1		
MINUTES PER CYCLE:	YEAR 1	3	5	11	7	11	8	9	8	8	11	5	3		
	YEAR 2	3	5	10	6	10	7	8	7	8	10	4	3		

NOTES:
THE CHARTS ARE INTENDED TO BE USED AS A GUIDELINE ONLY AND INDICATE APPROXIMATE RUN TIMES (IN MINUTES) FOR EACH ZONE BASED ON ESTIMATED WEEKLY WATER REQUIREMENTS FOR ESTABLISHED PLANT MATERIAL. THE FIGURES SHOWN IN THIS SCHEDULE ARE APPROXIMATE AND HAVE BEEN DEVELOPED FROM LOCAL CURRENT AVERAGES FOR EVAPOTRANSPIRATION, AND REFLECT MAXIMUM IRRIGATION REQUIREMENTS OF THE PLANT MATERIAL BASED ON PLANT TYPE AND SPACING. ACTUAL RUN TIMES MAY BE DIFFERENT DEPENDING ON A VARIETY OF FACTORS INCLUDING TOPOGRAPHY, SOIL STRUCTURE, SUN AND WIND EXPOSURE, WEATHER, ACTUAL PLANT WATER REQUIREMENTS, ETC.

IRRIGATION NOTES

- THESE IRRIGATION DRAWINGS ARE DIAGRAMMATIC AND INDICATIVE OF THE WORK TO BE INSTALLED. ALL PIPING, VALVES, ETC. SHOWN WITHIN PAVED AREAS IS FOR CLARITY ONLY AND ARE TO BE INSTALLED WITHIN PLANTING AREAS WHERE POSSIBLE. DUE TO THE SCALE OF THE DRAWINGS, IT IS NOT POSSIBLE TO INDICATE ALL OFFSETS, FITTINGS, SLEEVES, ETC., WHICH MAY BE REQUIRED. THE CONTRACTOR IS REQUIRED TO INVESTIGATE THE STRUCTURAL AND FINISHED CONDITIONS AFFECTING ALL OF THE CONTRACT WORK INCLUDING OBSTRUCTIONS, GRADE DIFFERENCES OR AREA DIMENSIONAL DIFFERENCES WHICH MAY NOT HAVE BEEN CONSIDERED IN THE ENGINEERING. IN THE EVENT OF FIELD DIFFERENCES, THE CONTRACTOR IS REQUIRED TO PLAN THE INSTALLATION WORK ACCORDINGLY BY NOTIFICATION AND APPROVAL OF THE OWNER'S AUTHORIZED REPRESENTATIVE AND ACCORDING TO THE CONTRACT SPECIFICATION. THE CONTRACTOR IS ALSO REQUIRED TO NOTIFY AND COORDINATE IRRIGATION CONTRACT WORK WITH ALL APPLICABLE CONTRACTORS FOR THE LOCATION AND INSTALLATION OF PIPE, CONDUIT OR SLEEVES THROUGH OR UNDER WALLS, ROADWAYS, PAVING, STRUCTURE, ETC., BEFORE CONSTRUCTION. IN THE EVENT THESE NOTIFICATIONS ARE NOT PERFORMED, THE CONTRACTOR SHALL ASSUME FULL RESPONSIBILITY FOR ALL REQUIRED REVISIONS.
- THE CONTRACTOR SHALL EXERCISE CARE IN LOCATING PIPING AS TO NOT CONFLICT WITH OTHER UTILITIES. DO NOT INSTALL IRRIGATION PIPING PARALLEL TO AND DIRECTLY OVER OTHER UTILITIES.
- THE INTENT OF THIS IRRIGATION SYSTEM IS TO PROVIDE THE MINIMUM AMOUNT OF WATER REQUIRED TO SUSTAIN GOOD PLANT HEALTH.
- IT IS THE RESPONSIBILITY OF THE LANDSCAPE MAINTENANCE CONTRACTOR AND/OR OWNER TO PROGRAM THE IRRIGATION CONTROLLERS TO PROVIDE THE MINIMUM AMOUNT OF WATER NEEDED TO SUSTAIN GOOD PLANT HEALTH. THIS INCLUDES MAKING ADJUSTMENTS TO THE PROGRAM FOR SEASONAL WEATHER CHANGES, PLANT MATERIAL, WATER REQUIREMENTS, MOUNDS AND SLOPES, SUN, SHADE, AND WIND EXPOSURES.
- AT THE END OF THE REQUIRED MAINTENANCE PERIOD OF THE CONTRACTOR, THE OWNER SHALL PROVIDE REGULAR MAINTENANCE OF THE IRRIGATION SYSTEM TO ENSURE THE EFFICIENT USE OF WATER. MAINTENANCE SHALL INCLUDE, BUT NOT BE LIMITED TO CHECKING, ADJUSTING, AND REPAIRING IRRIGATION EQUIPMENT AND CONTROL SYSTEM.
- 120 VOLT A.C. (2.5 AMP DEMAND) ELECTRICAL SERVICE TO IRRIGATION CONTROLLER LOCATION TO BE PROVIDED UNDER ELECTRICAL CONTRACT WORK. IRRIGATION CONTRACTOR TO MAKE FINAL CONNECTION FROM ELECTRICAL STUB-OUT TO CONTROLLER AND PROVIDE PROPER GROUNDING PER CONTROLLER MANUFACTURER'S INSTRUCTIONS.
- CONTROLLER SHALL HAVE ITS OWN GROUND ROD. THE GROUND ROD SHALL BE AN EIGHT FOOT LONG BY 5/8" DIAMETER U.L. APPROVED COPPER CLAD ROD. NO MORE THAN 6" OF THE GROUND ROD TO BE ABOVE GRADE. CONNECT #8 GAUGE WIRE WITH A U.L. APPROVED GROUND ROD CLAMP TO ROD AND BACK TO GROUND SCREW AT BASE OF CONTROLLER WITH APPROPRIATE CONNECTOR. THIS WIRE SHOULD BE AS SHORT AS POSSIBLE, AVOIDING ANY KINKS OR BENDING. GROUND ROD SHALL BE A MINIMUM OF EIGHT FEET (8') FROM IRRIGATION CONTROL WIRE BUNDLE.
- IRRIGATION CONTROLLER TO HAVE ITS OWN INDEPENDENT 24 VOLT COMMON GROUND WIRE.
- CONTRACTOR SHALL PROGRAM THE IRRIGATION CONTROLLER TO PROVIDE IRRIGATION TO ALL PLANTING WITHIN THE ALLOWED WATERING WINDOW OF TIME AS REQUIRED. THE CONTRACTOR SHALL CREATE CONTROLLER PROGRAMMING THAT WILL NOT EXCEED THE MAXIMUM GALLONS PER MINUTE FLOW RATE STATED ON THE DRAWINGS, AND NOT EXCEED THE CAPACITY OF ANY MAIN LINE PIPING.
- IRRIGATION CONTROL WIRES SHALL BE COPPER WITH U.L. APPROVAL FOR DIRECT BURIAL IN GROUND, SIZE #14-1. COMMON GROUND WIRE SHALL HAVE WHITE INSULATING JACKET. CONTROL WIRE SHALL HAVE INSULATING JACKET OF COLOR OTHER THAN WHITE. SPLICE SHALL BE MADE WITH 3M-DBR/Y-6 SEAL PACKS.
- INSTALL SPARE CONTROL WIRE OF A DIFFERENT COLOR ALONG THE ENTIRE MAIN LINE. LOOP 36" EXCESS WIRE INTO EACH SINGLE VALVE BOX AND INTO ONE VALVE BOX IN EACH GROUP OF VALVES. MINIMUM OF ONE SPARE WIRE PER CONTROLLER.
- SPLICING OF 24 VOLT WIRES IS NOT PERMITTED EXCEPT IN VALVE BOXES. SEAL WIRE SPLICES WITH 3M-DBR/Y-6 SPLICE SEALING DEVICES OF SIZE COMPATIBLE WITH WIRE SIZE. LEAVE A 36" LONG, 1" DIAMETER COIL OF EXCESS WIRE AT EACH SPLICE AND A 36" LONG EXPANSION LOOP EVERY 100 FEET ALONG WIRE RUN. TAPE WIRES TOGETHER EVERY TEN FEET. TAPING WIRES IS NOT REQUIRED INSIDE SLEEVES.
- PLASTIC VALVE BOXES ARE TO BE BLACK IN COLOR WITH BOLT DOWN, NON-HINGED COVER MARKED "IRRIGATION". BOX BODY SHALL HAVE KNOCK OUTS. MANUFACTURER SHALL BE CARSON INDUSTRIES.
- INSTALL REMOTE CONTROL VALVE BOXES 12" FROM WALK, CURB, LAWN, HEADER BOARD, BUILDING, OR LANDSCAPE FEATURE. AT MULTIPLE VALVE BOX GROUPS, EACH BOX SHALL BE AN EQUAL DISTANCE FROM THE WALK, CURB, LAWN, ETC. AND EACH BOX SHALL BE 12" APART. SHORT SIDE OF RECTANGULAR VALVE BOXES SHALL BE PARALLEL TO WALK, CURB, ETC.
- VALVE LOCATIONS SHOWN ARE DIAGRAMMATIC. INSTALL IN GROUND COVER/SHRUB AREAS WHERE POSSIBLE (NOT IN LAWN AREA).
- THE IRRIGATION CONTRACTOR SHALL FLUSH AND ADJUST ALL SPRINKLER HEADS FOR OPTIMUM PERFORMANCE AND TO PREVENT OVER SPRAY ONTO WALKS, ROADWAYS, AND/OR BUILDINGS AS MUCH AS POSSIBLE. THIS SHALL INCLUDE SELECTING THE BEST DEGREE OF ARC TO FIT THE EXISTING SITE CONDITIONS AND TO THROTTLE THE FLOW CONTROL AT EACH VALVE TO OBTAIN THE OPTIMUM OPERATING PRESSURE FOR EACH SYSTEM.
- ALL SPRINKLER HEADS SHALL BE SET PERPENDICULAR TO FINISH GRADE OF THE AREA TO BE IRRIGATED UNLESS OTHERWISE NOTED ON THE DRAWINGS.
- LOCATE BUBBLERS ON UP-HILL SIDE OF PLANT OR TREE.
- INSTALL A VALCON 5000 SERIES SPRING LOADED CHECK VALVE BELOW THOSE SPRINKLERS WHERE LOW HEAD DRAINAGE WILL CAUSE EROSION AND/OR EXCESS WATER.
- WHERE IT IS NECESSARY TO EXCAVATE ADJACENT TO EXISTING TREES, THE CONTRACTOR SHALL USE ALL POSSIBLE CARE TO AVOID INJURY TO TREES AND TREE ROOTS. EXCAVATION IN AREAS WHERE TWO (2) INCH AND LARGER ROOTS OCCUR SHALL BE DONE BY HAND. TRENCHES ADJACENT TO TREE SHOULD BE CLOSED WITHIN TWENTY-FOUR (24) HOURS; AND WHERE THIS IS NOT POSSIBLE, THE SIDE OF THE TRENCH ADJACENT TO THE TREE SHALL BE KEPT SHADED WITH BURLAP OR CANVAS.
- IRRIGATION CONTRACTOR TO NOTIFY ALL LOCAL JURISDICTIONS FOR INSPECTION AND TESTING OF INSTALLED BACKFLOW PREVENTION DEVICE.
- PRESSURE TEST PROCEDURE. THE CONTRACTOR SHALL:
 - NOTIFY ARCHITECT AT LEAST THREE (3) DAY IN ADVANCE OF TESTING.
 - PERFORM TESTING AT HIS OWN EXPENSE.
 - CENTER LOAD PIPING WITH SMALL AMOUNT OF BACKFILL TO PREVENT ARCHING OR SLIPPING UNDER PRESSURE. NO FITTING SHALL BE COVERED.
 - APPLY THE FOLLOWING TESTS AFTER WELD PLASTIC PIPE JOINTS HAVE CURED AT LEAST 24 HOURS.
 - TEST LIVE (CONSTANT PRESSURE) AND QUICK COUPLER LINE HYDROSTATICALLY AT 125 PSI MINIMUM. LINES WILL BE APPROVED IF TEST PRESSURE IS MAINTAINED FOR SIX (6) HOURS. THE LINE WILL BE APPROVED OR NOT APPROVED AS SUCH RESULTS MAY INDICATE. THE CONTRACTOR SHALL MAKE TESTS AND REPAIRS AS NECESSARY UNTIL TEST CONDITIONS ARE MET.
 - TEST RCV CONTROLLED LATERAL LINES WITH WATER AT LINE PRESSURE AND VISUALLY INSPECT FOR LEAKS. RETEST AFTER CORRECTING DEFECTS.
- THE SPRINKLER SYSTEM DESIGN IS BASED ON THE MINIMUM OPERATING PRESSURE SHOWN ON THE IRRIGATION DRAWINGS. THE IRRIGATION CONTRACTOR SHALL VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. REPORT ANY DIFFERENCE BETWEEN THE WATER PRESSURE INDICATED ON THE DRAWINGS AND THE ACTUAL PRESSURE READING AT THE IRRIGATION POINT OF CONNECTION TO THE OWNER'S AUTHORIZED REPRESENTATIVE.
- IRRIGATION DEMAND: 28 GPM AT 60 PSI STATIC PRESSURE AT IRRIGATION POINT OF CONNECTION. FIELD VERIFY WATER PRESSURE PRIOR TO CONSTRUCTION. IF ACTUAL WATER PRESSURE DIFFERS FROM THE STATED PRESSURE CONTACT ARCHITECT FOR DIRECTION AND POSSIBLE REVISION.
- PIPE THREAD SEALANT COMPOUND SHALL BE RECTOR SEAL T+2, CHRISTY'S ULTRA SEAL, OR APPROVED EQUAL.

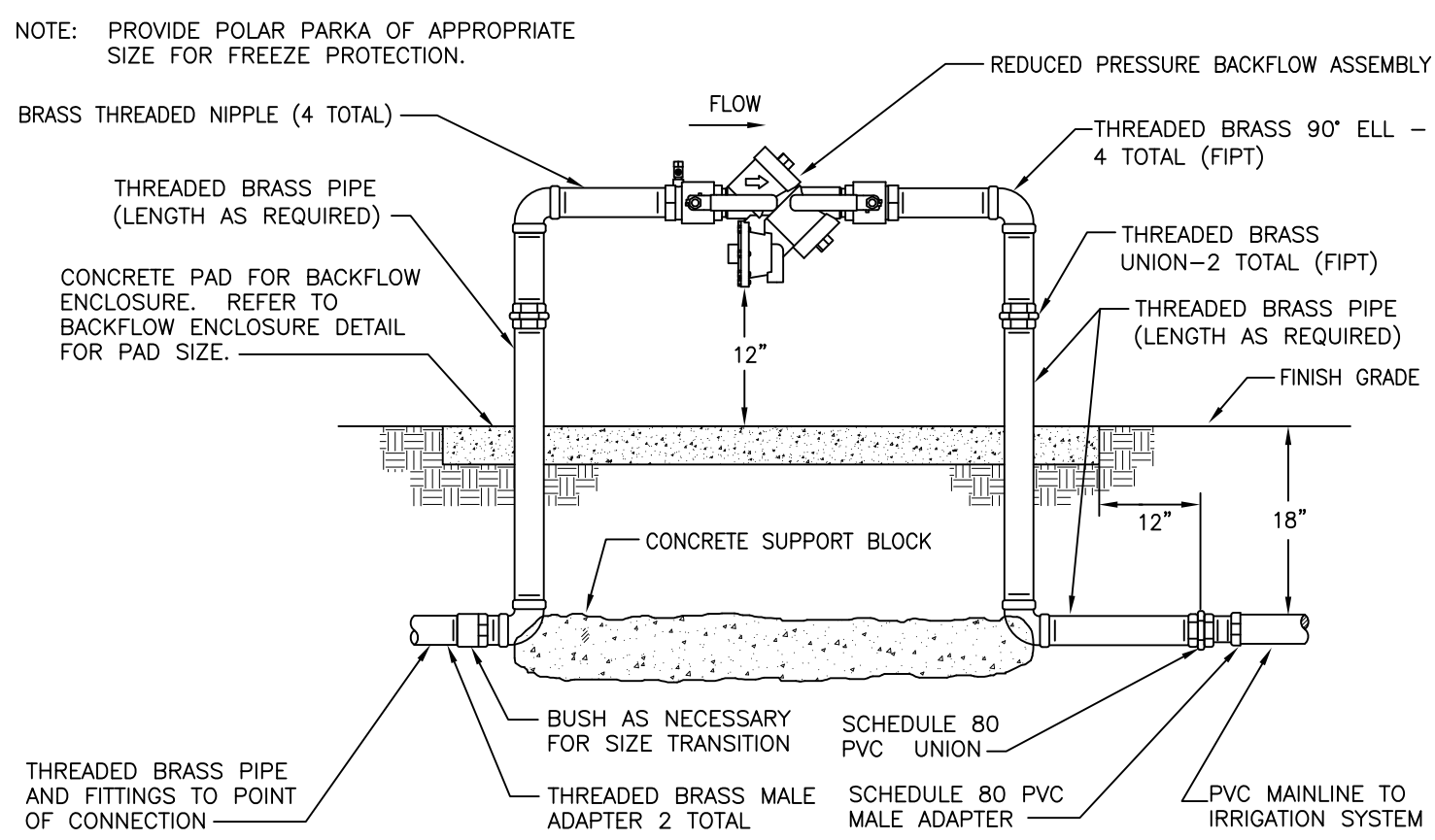
IRRIGATION LEGEND

SYMBOL	MODEL NUMBER	DESCRIPTION
⊖ ⊕	PROS-06-PRS30-CV-15-H.Q	HUNTER POP-UP SPRAY SPRINKLER (LAWN)
⊖ ⊕	PROS-06-PRS30-CV-12-H.Q	HUNTER POP-UP SPRAY SPRINKLER (LAWN)
⊖ ⊕	PROS-06-PRS30-CV-10-F.H.Q	HUNTER POP-UP SPRAY SPRINKLER (LAWN)
⊖ ⊕	PROS-06-PRS30-CV-8-H	HUNTER POP-UP SPRAY SPRINKLER (LAWN)
⊖ ⊕	PROS-06-PRS30-CV-5-H	HUNTER POP-UP SPRAY SPRINKLER (LAWN)
●	PCB-25	HUNTER BUBBLER (SHRUB)
■	PCB-25	HUNTER BUBBLER (TREE)
□	RZWS-36-25-CV	HUNTER ROOT ZONE BUBBLER ASSEMBLY AND CHECK VALVE (TREE)
⊖	IBV-FS-SERIES	HUNTER FILTER SENTRY BRASS REMOTE CONTROL VALVE
◆	HQ-33DR	HUNTER QUICK COUPLING VALVE
⋈	T-113	NIBCO GATE VALVE (LINE SIZE)
⊠	975XL2-1"	WILKINS REDUCED PRESSURE BACKFLOW ASSEMBLY (LEAD FREE)
⊙	ICAB-HU3-1800/SP/SOLSE/MP16	IMPERIAL TECHNICAL SERVICES CONTROLLER ASSEMBLY WITH HUNTER ACC CONTROLLER, STAINLESS STEEL ENCLOSURE, SURGE PROTECTION, SOLAR SYNC WEATHER SENSOR, AND MOUNTING PAD. CONTACT ANDREW BOLT FOR ORDER, PURCHASE, AND WARRANTY. (209-404-1746)
ISS	SOLAR SYNC-SEN	HUNTER SOLAR SYNC SENSOR (MOUNT ON SIDE OF CONTROLLER ENCLOSURE IN VANDAL-RESISTANT ENCLOSURE)
⊖		PRECIPITATION RATE
⊖		CONTROLLER & STATION NUMBER
⊖		APPROXIMATE FLOW (GPM)
⊖		REMOTE CONTROL VALVE SIZE
⊖		MAIN LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT-WELD FITTINGS. 18" COVER.
⊖		LATERAL LINE: 1120-SCHEDULE 40 PVC PLASTIC PIPE WITH SCHEDULE 40 PVC SOLVENT-WELD FITTINGS. 12" COVER.
⊖		SLEEVING: 1120-SCHEDULE 40 PVC PLASTIC PIPE. 16" COVER. 24" UNDER VEHICULAR PAVING.

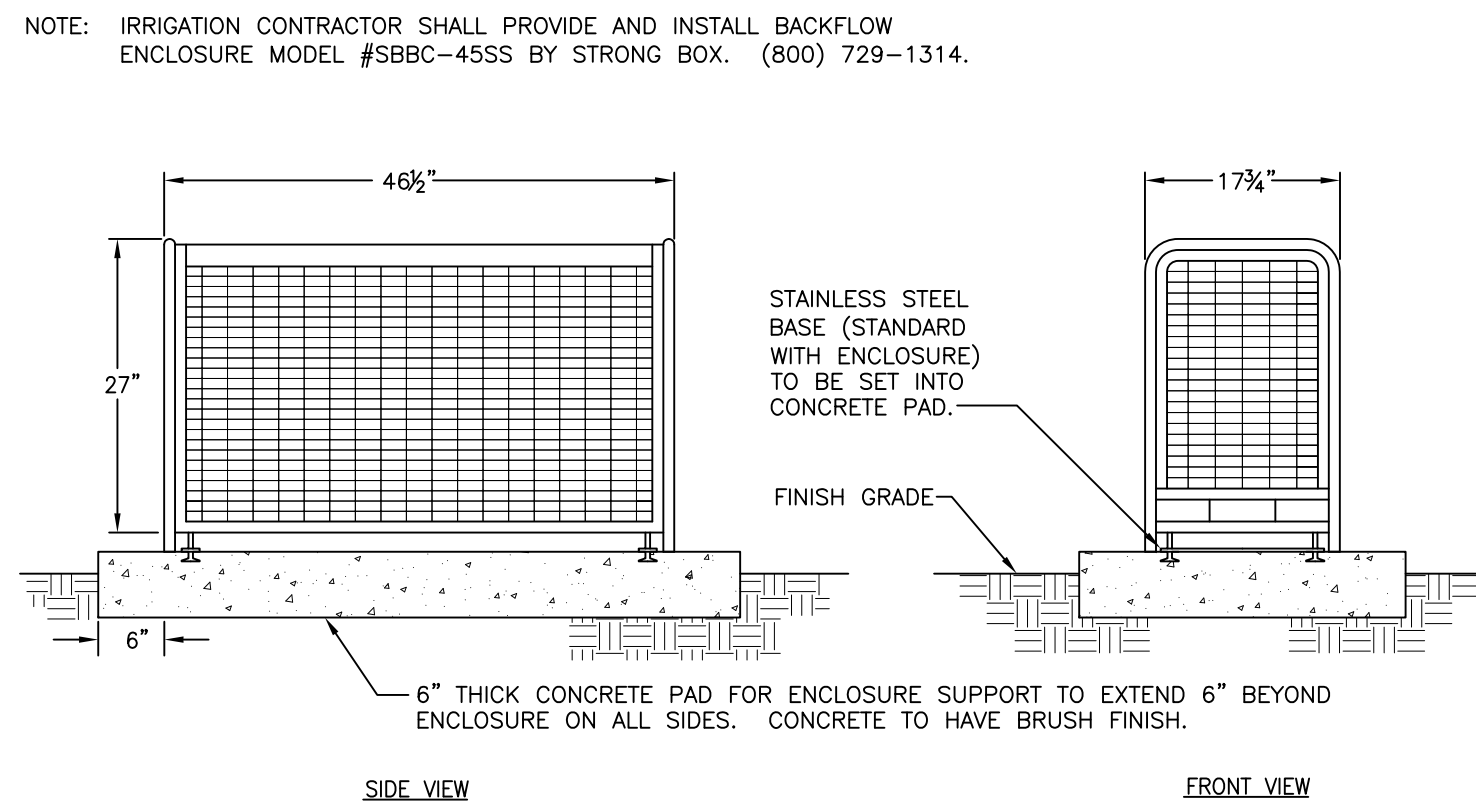
IRRIGATION WATER USE CALCULATIONS

MAXIMUM APPLIED WATER ALLOWANCE (MAWA) = (ETO x .7 x LANDSCAPED AREA x 0.62)	
ETO	50.5 INCHES
LANDSCAPED AREA	6,724 SQUARE FEET
MAWA	147,370 GALLONS/YEAR
ESTIMATED APPLIED WATER USE (EWU) = (ETO x PLANT FACTOR x LANDSCAPED AREA x 0.62)/IRRIGATION EFFICIENCY	
1. SPRAY IRRIGATION IN MODERATE WATER USE TURF AREAS:	
LANDSCAPED AREA	2,196 SQUARE FEET
PLANT FACTOR	0.3
IRRIGATION EFFICIENCY	0.7
EWU	49,112 GALLONS/YEAR
2. BUBBLER IRRIGATION IN LOW WATER USE SHRUB/GROUND COVER AREAS:	
LANDSCAPED AREA	4,144 SQUARE FEET
PLANT FACTOR	0.3
IRRIGATION EFFICIENCY	0.85
EWU	45,794 GALLONS/YEAR
3. TREE BUBBLER IRRIGATION FOR LOW WATER-USE TREES:	
LANDSCAPED AREA	384 SQUARE FEET
PLANT FACTOR	0.3
IRRIGATION EFFICIENCY	0.85
EWU	4,243 GALLONS/YEAR
TOTAL EWU:	99,149 GALLONS/YEAR

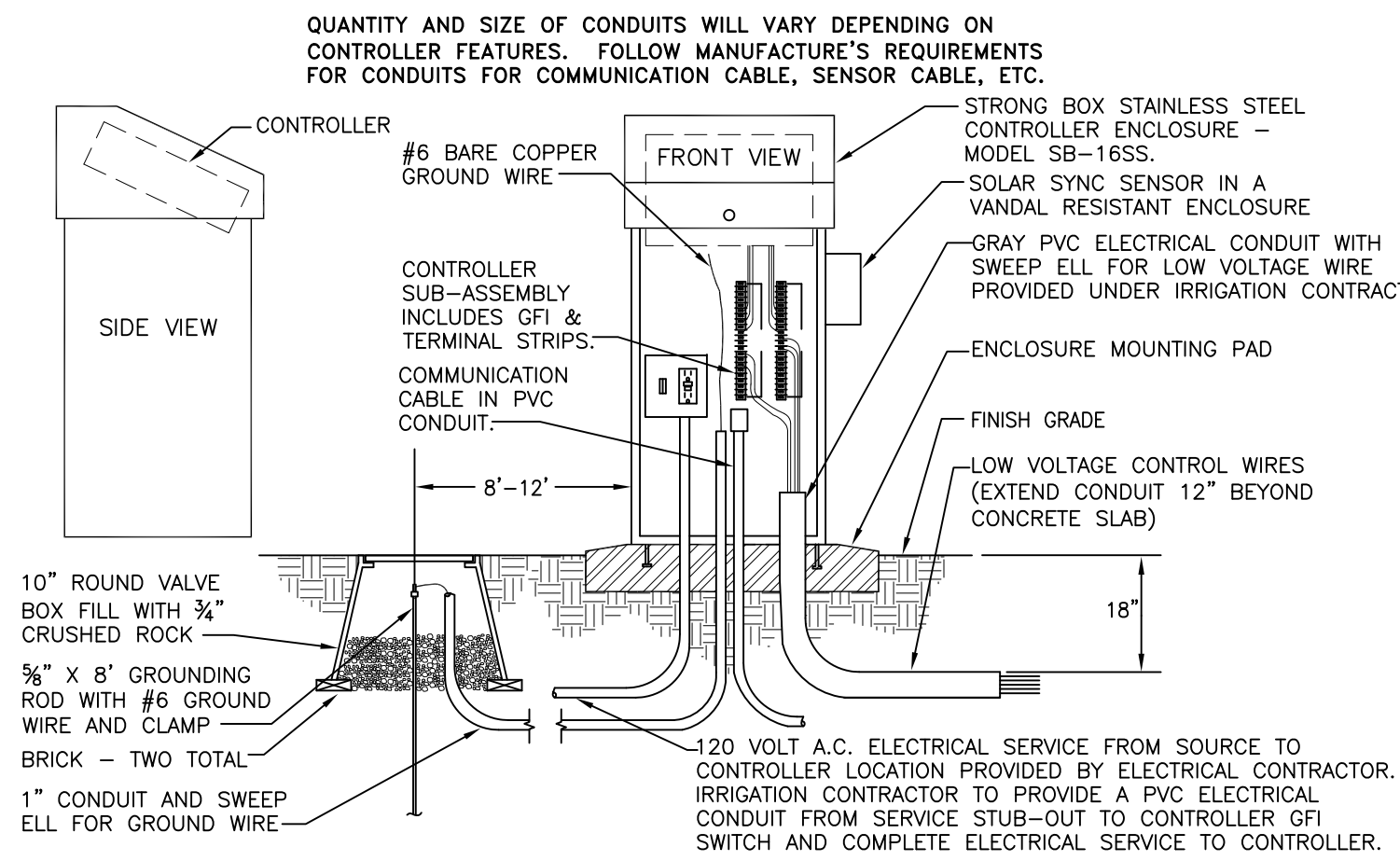




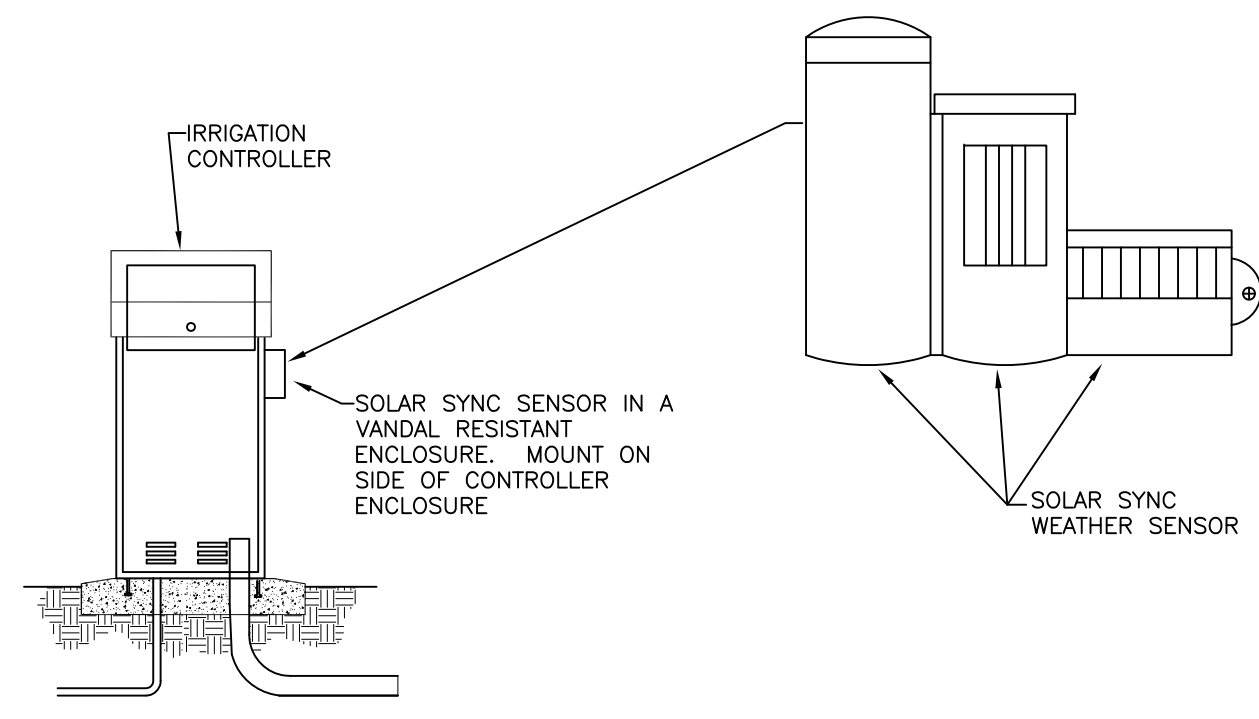
REDUCED PRESSURE BACKFLOW ASSEMBLY
NOT TO SCALE



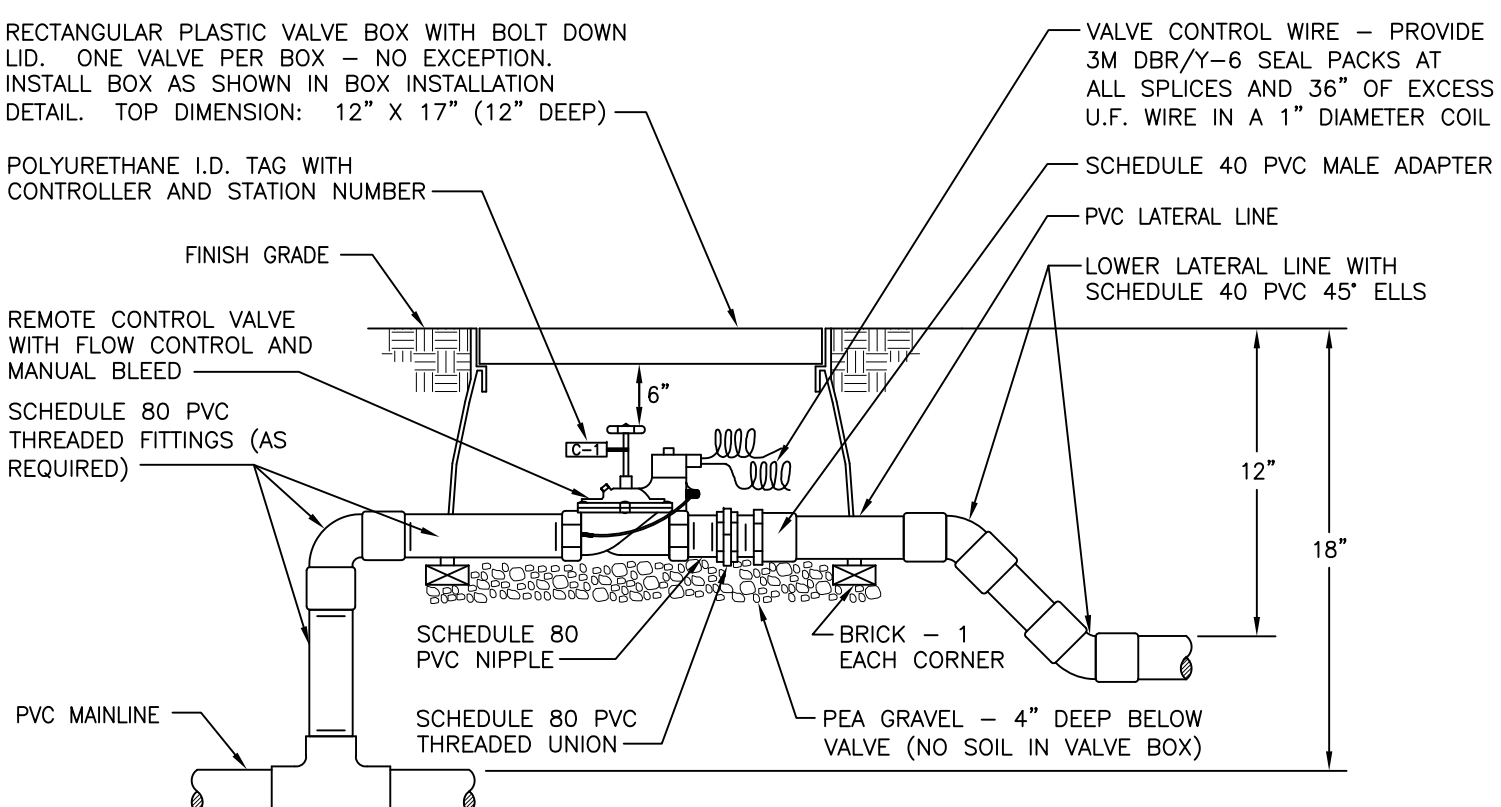
BACKFLOW PREVENTER ENCLOSURE
NOT TO SCALE



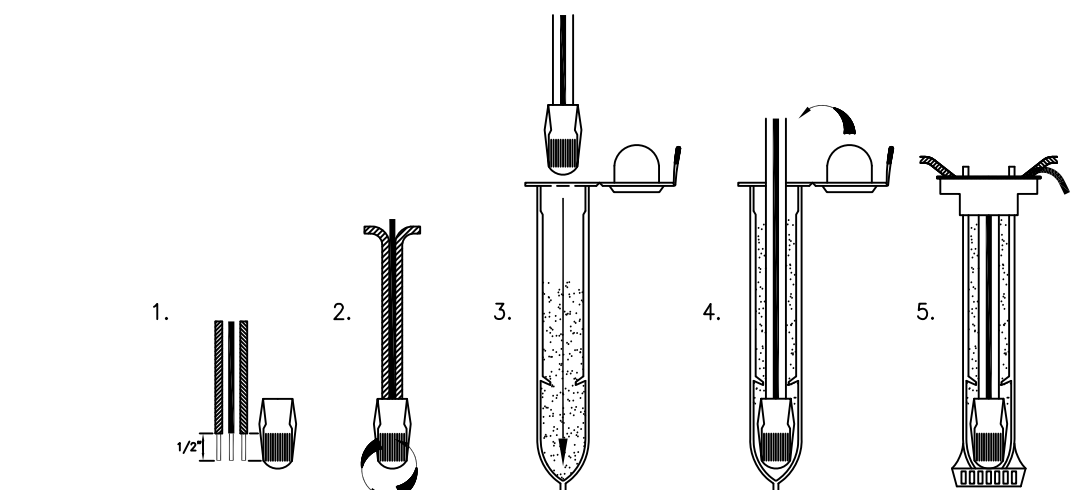
CONTROLLER ENCLOSURE TOP OPENING
NOT TO SCALE



SOLAR SYNC SENSOR
NOT TO SCALE

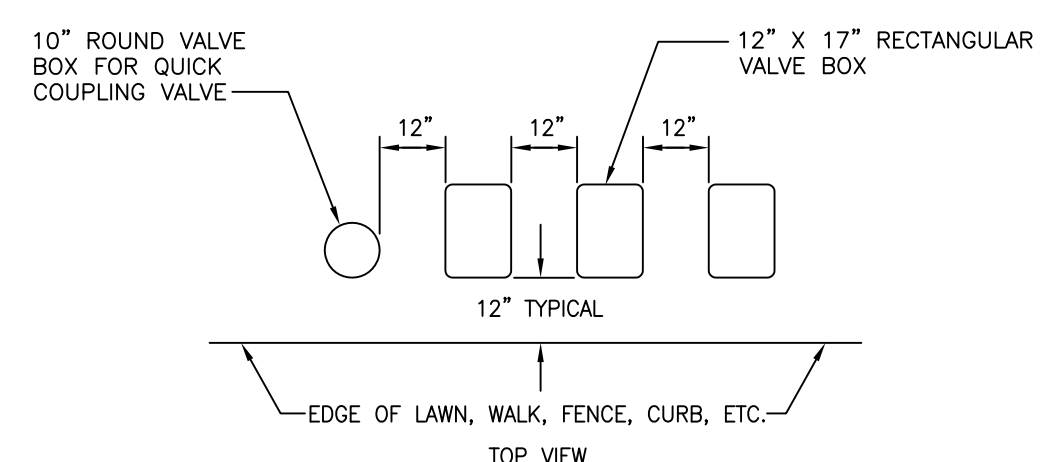


REMOTE CONTROL VALVE
NOT TO SCALE



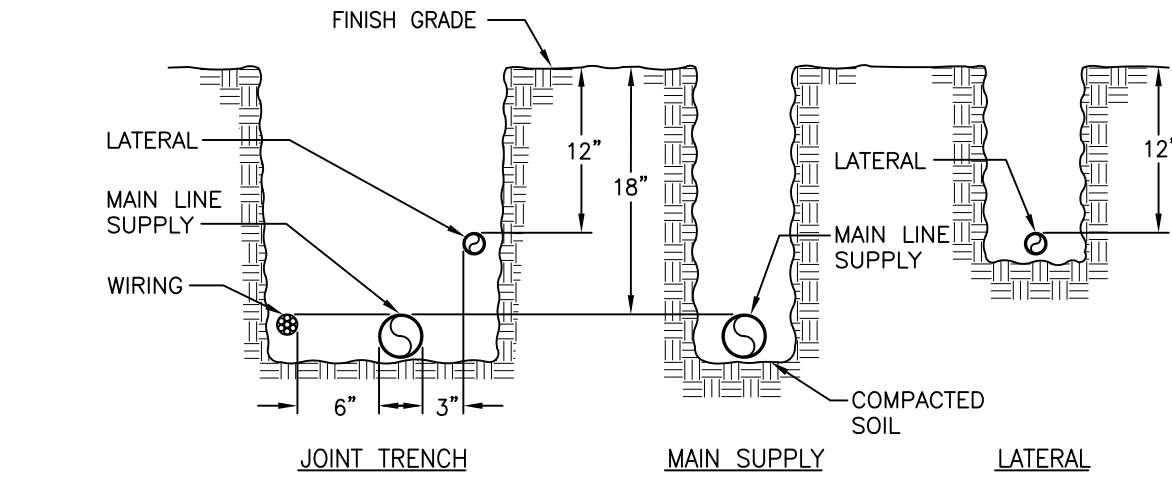
- INSTRUCTIONS:
1. USE 3M-DBR/Y-6 WEATHER PROOF SPLICE.
 2. STRIP WIRES APPROXIMATELY 1/2" (12.7 MM) TO EXPOSE WIRE.
 3. TWIST CONNECTOR AROUND WIRES CLOCKWISE UNTIL HAND TIGHT, DO NOT OVERTIGHTEN.
 4. INSERT WIRE ASSEMBLY INTO PLASTIC TUBE UNTIL WIRE CONNECTOR SNAPS PAST UP IN BOTTOM OF TUBE.
 5. PLACE WIRES WHICH EXIT TUBE IN WIRE EXIT HOLES AND CLOSE CAP UNTIL IT SNAPS.
 6. INSPECT FINAL SPLICE ASSEMBLY TO BE SECURE AND FINISHED.

WEATHERPROOF SPLICE ASSEMBLY
NOT TO SCALE



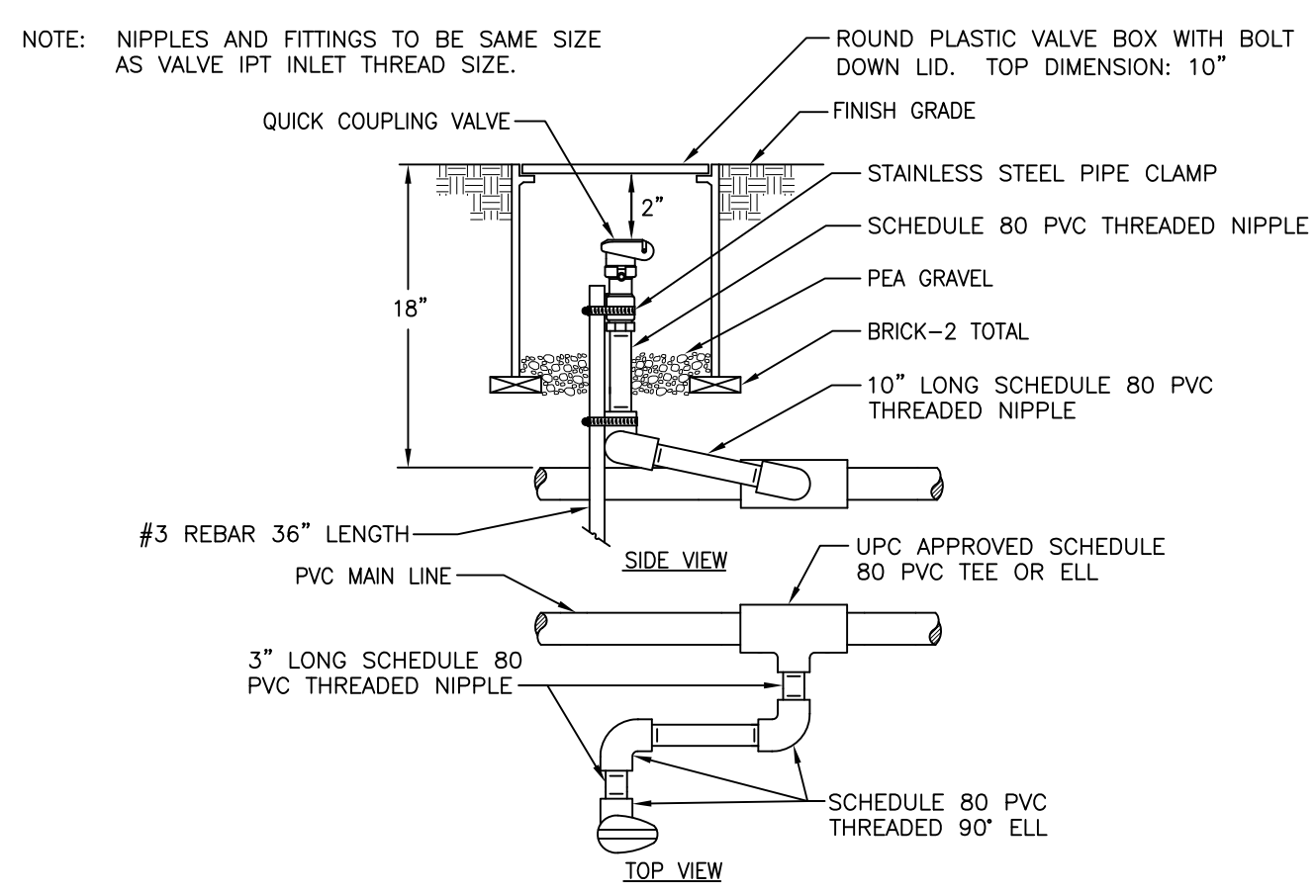
1. CENTER VALVE BOX OVER REMOTE CONTROL VALVE TO FACILITATE SERVICING VALVE.
2. SET BOXES 1" ABOVE FINISH GRADE OR MULCH COVER IN GROUND COVER/SHRUB AREA AND FINISH GRADE IN TURF AREA.
3. SET RCV AND VALVE BOX ASSEMBLY IN GROUND COVER/SHRUB AREA WHERE POSSIBLE. INSTALL IN LAWN ONLY IF GROUND COVER DOES NOT EXIST ADJACENT TO LAWN.
4. SET BOXES PARALLEL TO EACH OTHER AND PERPENDICULAR TO EDGE OF LAWN, WALK, FENCE, CURB, ETC.
5. AVOID HEAVILY COMPACTING SOIL AROUND VALVE BOXES TO PREVENT COLLAPSE AND DEFORMATION OF VALVE BOX SIDES.
6. INSTALL EXTENSION BY VALVE BOX MANUFACTURER AS REQUIRED TO COMPLETELY ENCLOSE ASSEMBLY FOR EASY ACCESS.

VALVE BOX INSTALLATION
NOT TO SCALE

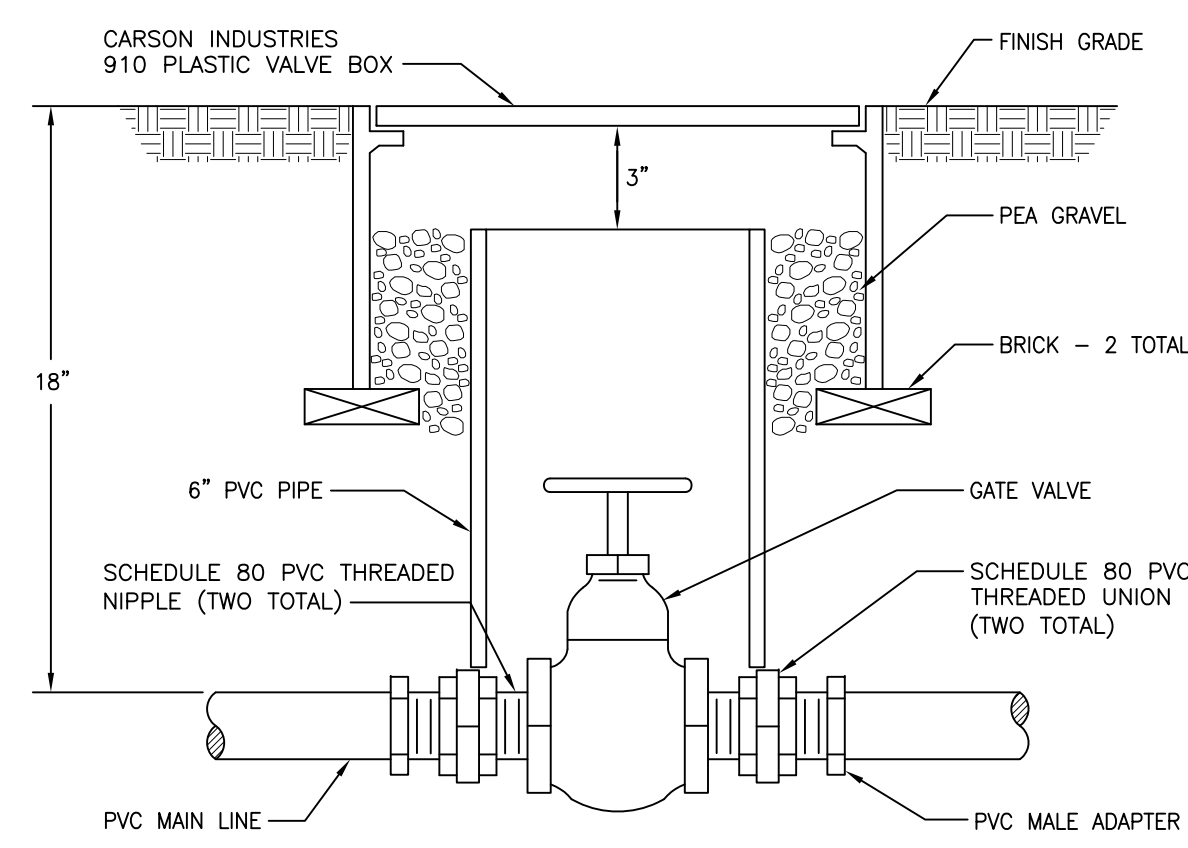


- NOTES:
1. ALL PLASTIC PIPING SHALL BE INSTALLED IN THE TRENCH IN A SERPENTINE MANNER AS PER THE MANUFACTURER'S SPECIFICATIONS.
 2. ALL SUPPLY LINES TO BE INSTALLED AS PER MANUFACTURER'S SPECIFICATIONS.
 3. TAPE AND BUNDLE TUBING OR WIRING AT 10 FEET INTERVALS.
 4. ALL 120 VOLT WIRING IN CONDUIT TO BE INSTALLED IN ACCORDANCE WITH ALL APPLICABLE CODES.
 5. BACKFILL MATERIAL SHALL BE THE EARTH EXCAVATED FROM THE TRENCHES, FREE FROM ROCKS, CONCRETE CHUNKS, AND OTHER FOREIGN OR COARSE MATERIALS. CAREFULLY SELECT BACKFILL THAT IS TO BE PLACED NEXT TO PLASTIC PIPE TO AVOID ANY SHARP OBJECTS WHICH MAY DAMAGE THE PIPE.

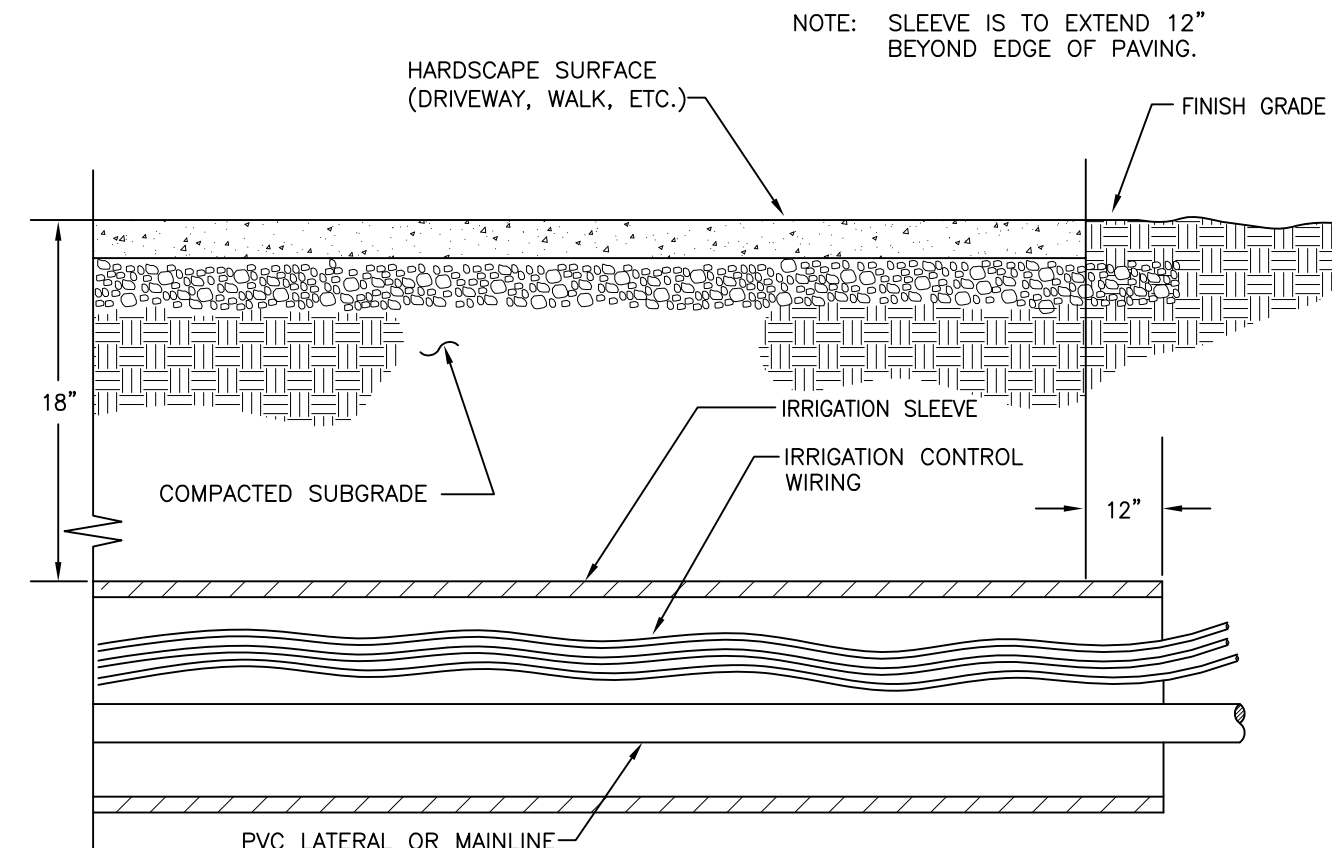
TRENCHING DETAIL
NOT TO SCALE



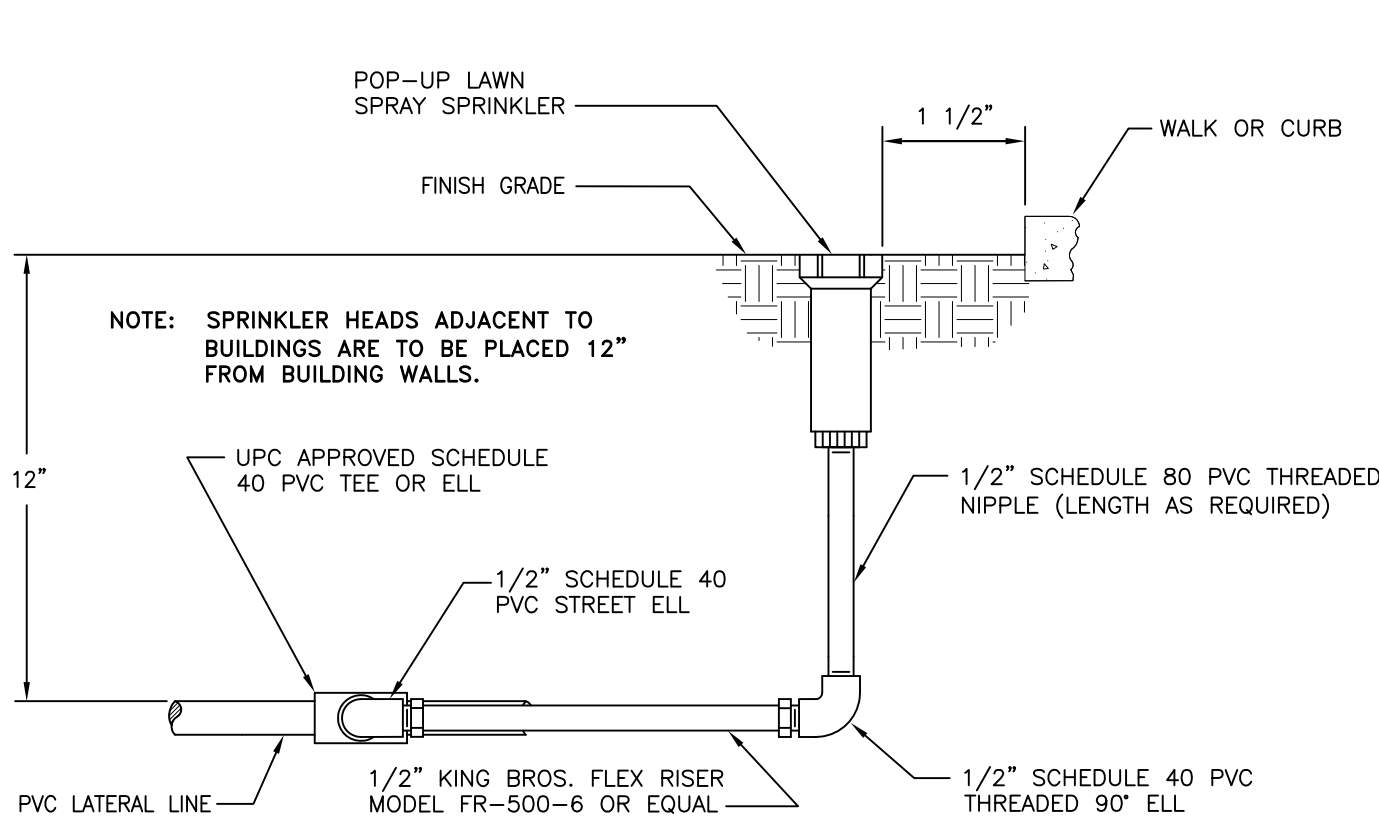
QUICK COUPLING VALVE
NOT TO SCALE



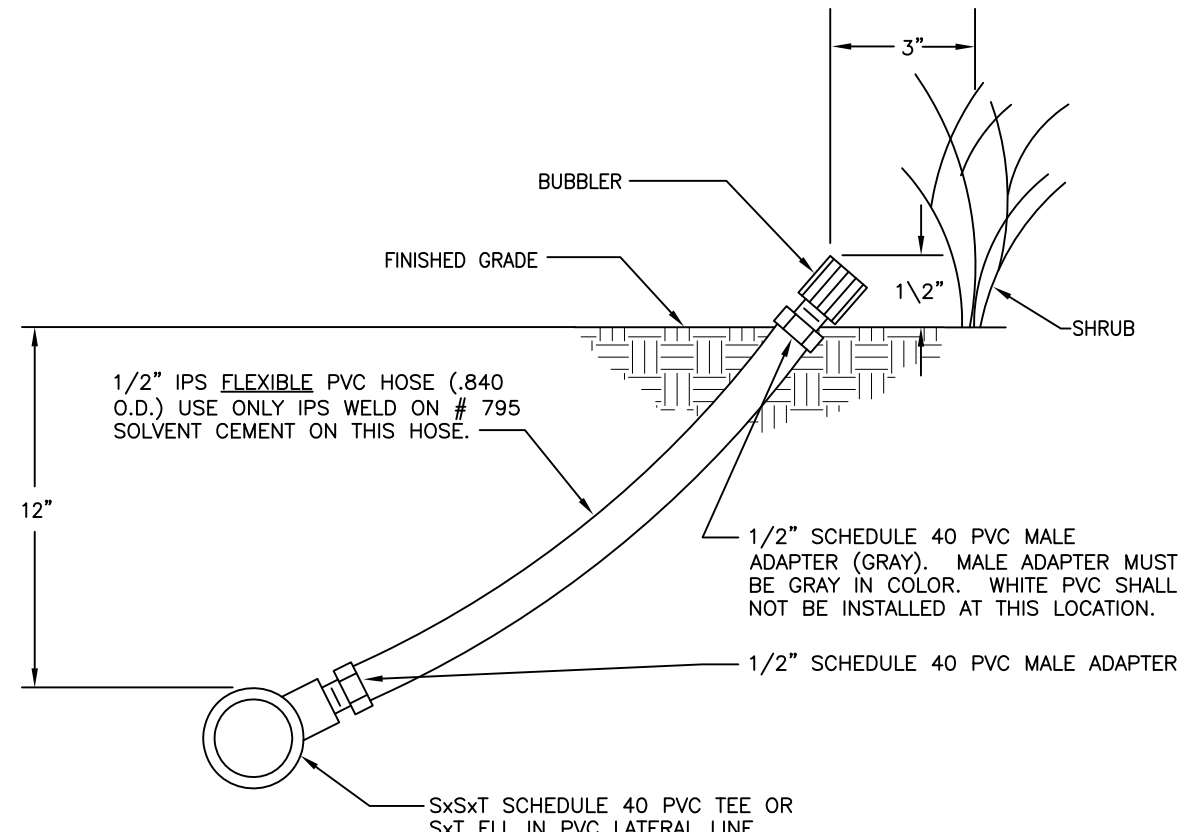
GATE VALVE
NOT TO SCALE



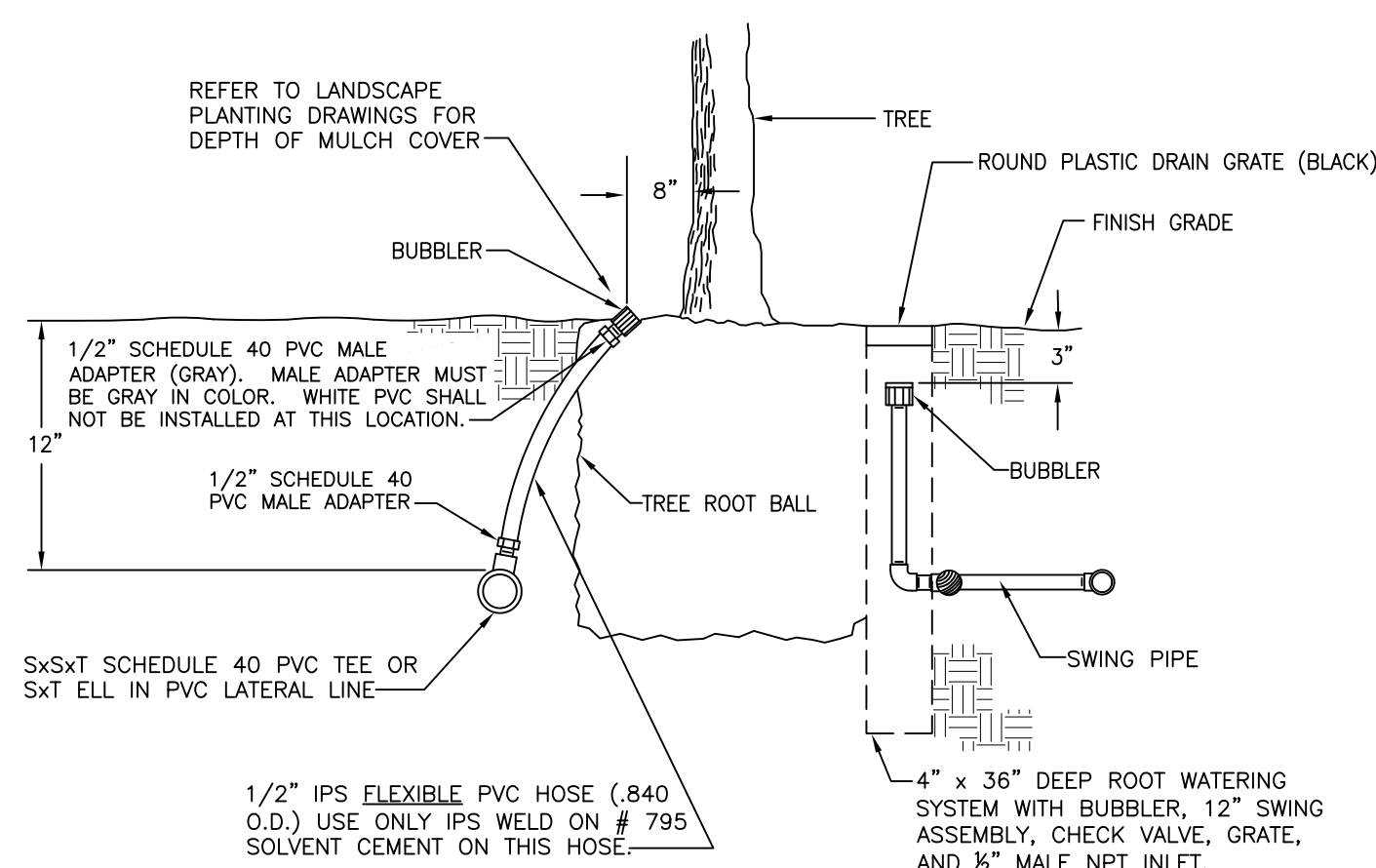
SLEEVING INSTALLATION
NOT TO SCALE



POP-UP LAWN SPRAY SPRINKLER RISER
NOT TO SCALE



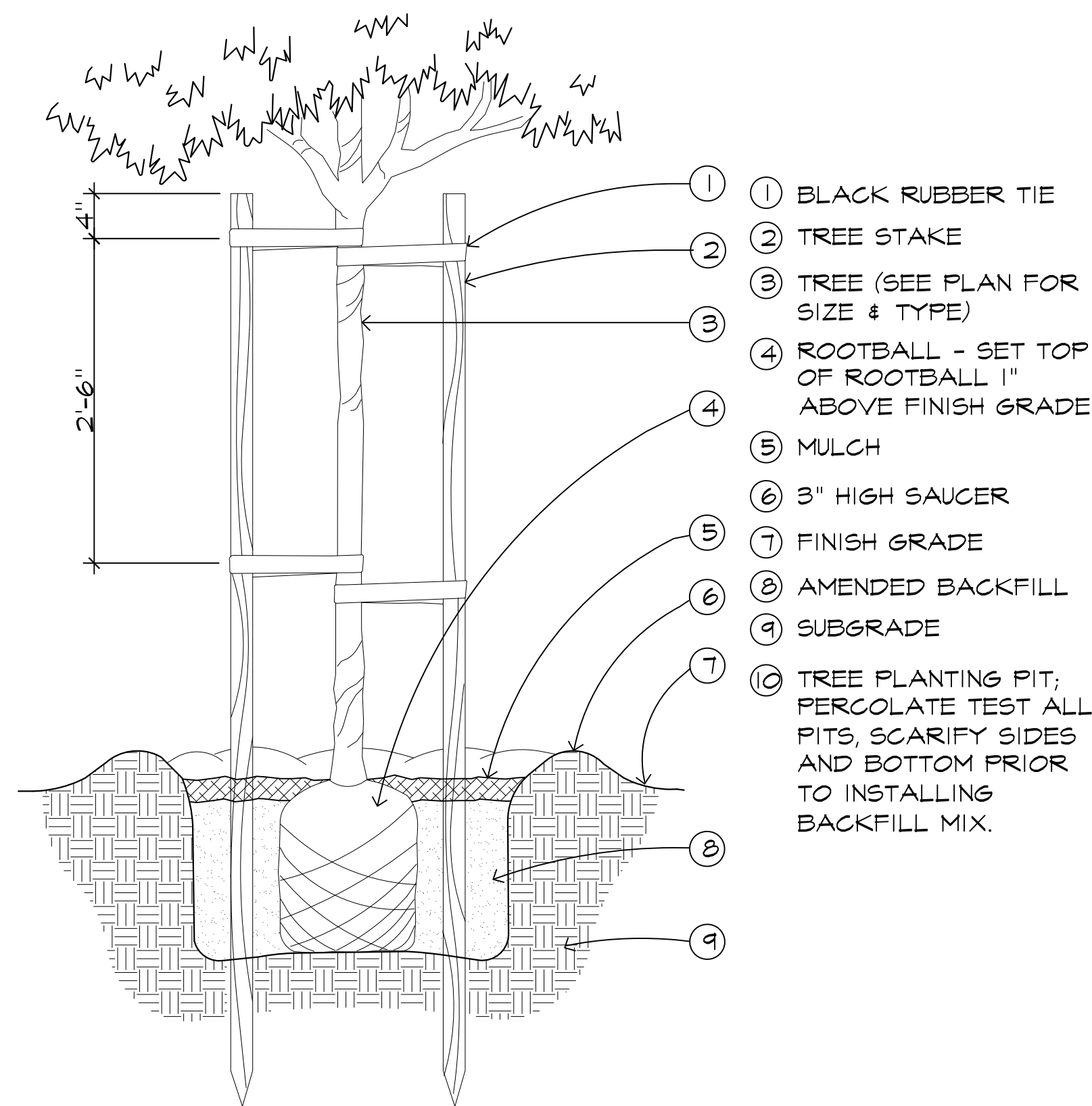
SHRUB BUBBLER WITH FLEXIBLE RISER
NOT TO SCALE



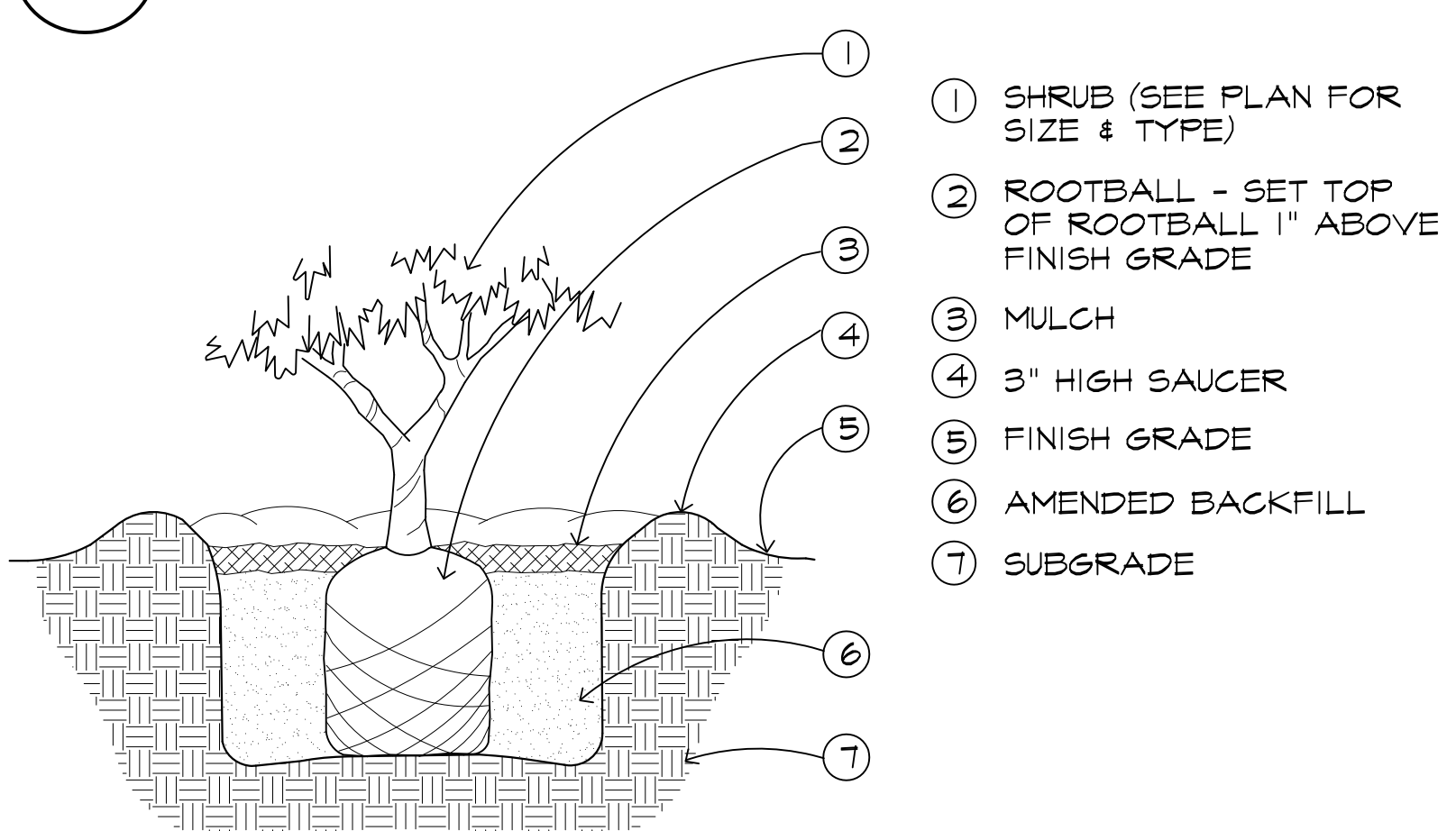
TREE BUBBLER
NOT TO SCALE

DICKSON & ASSOCIATES, INC.
LANDSCAPE IRRIGATION
MARTY DICKSON, ASIC-IPC
TEL(930) 547-5515 FAX(930) 547-5513
P.O. BOX 415
PALO CEDRO, CALIFORNIA 96073
© Dickson & Associates, Inc.

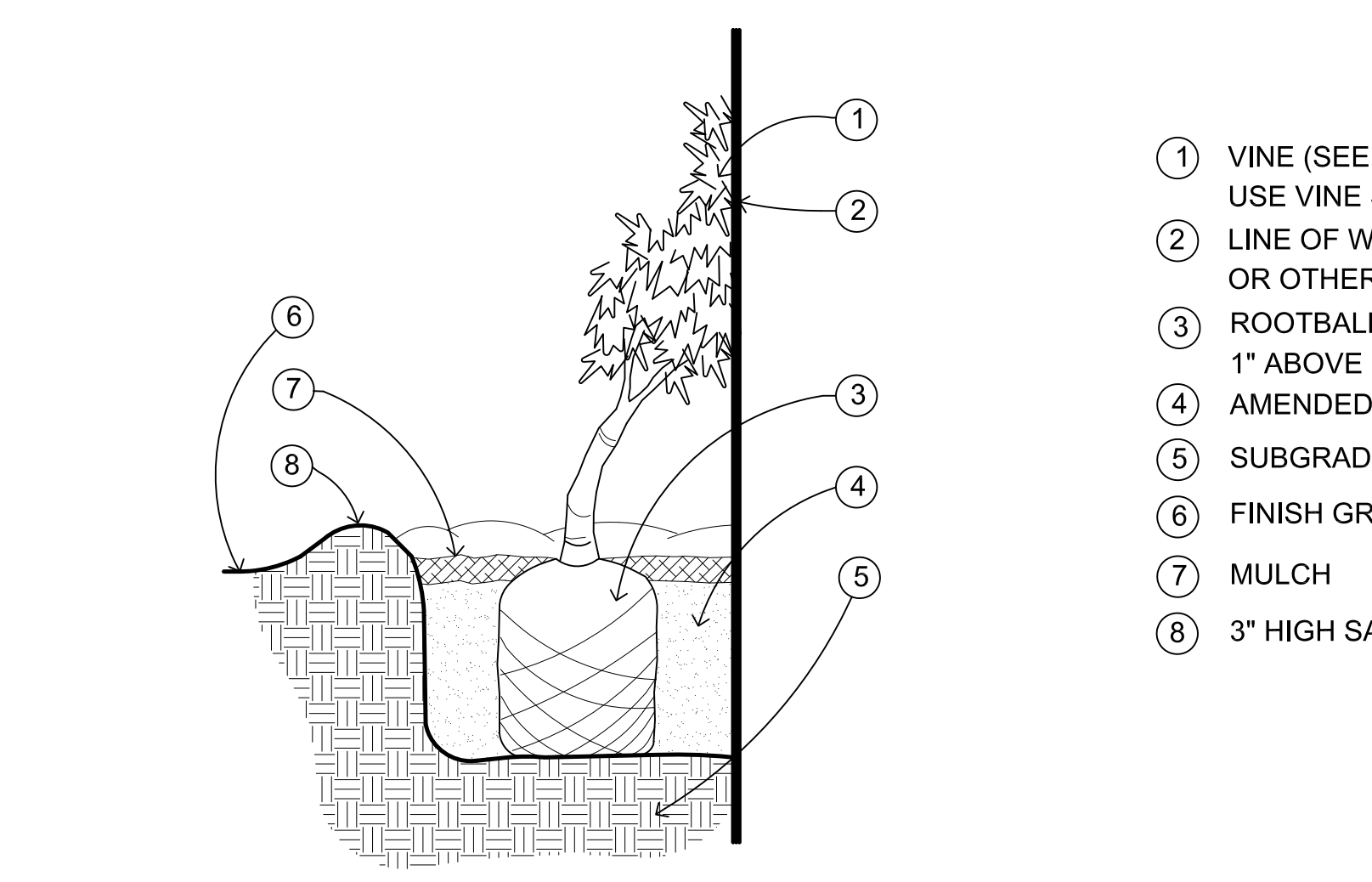
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1 TREE PLANTING SCALE : N.T.S. 0/6 - TREE



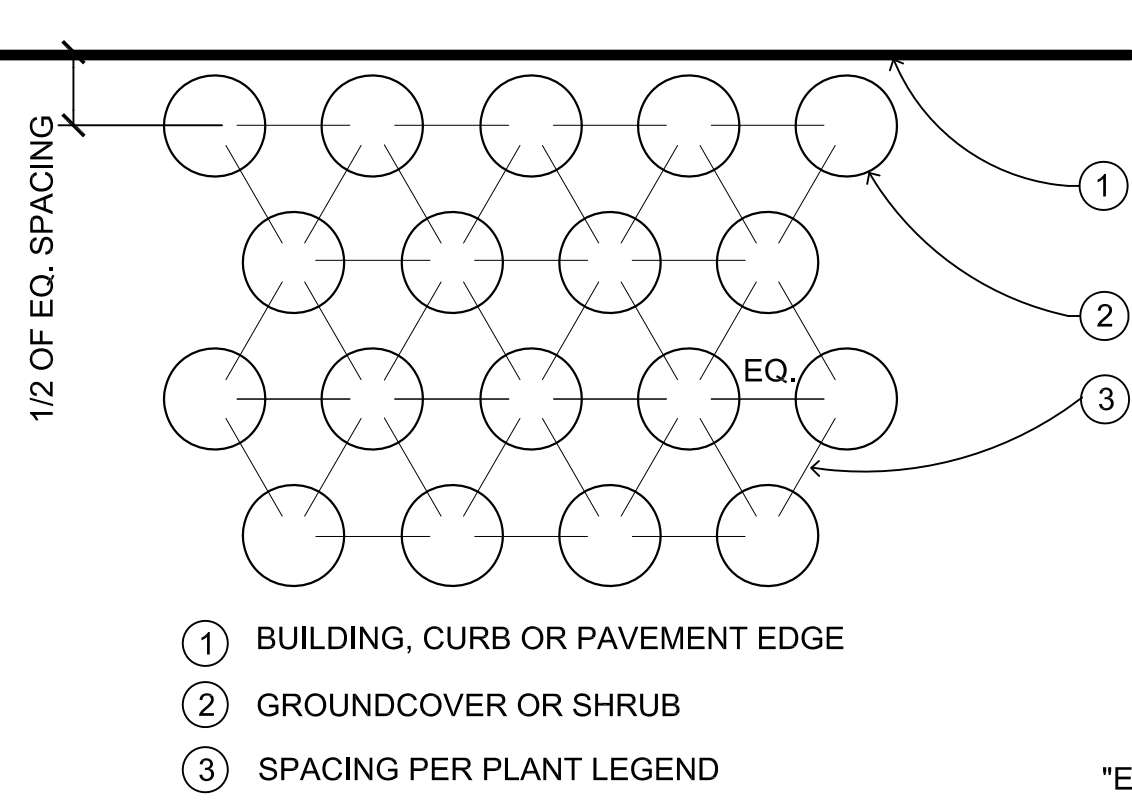
2 SHRUB PLANTING SCALE : N.T.S. 0/6 - SHRUB



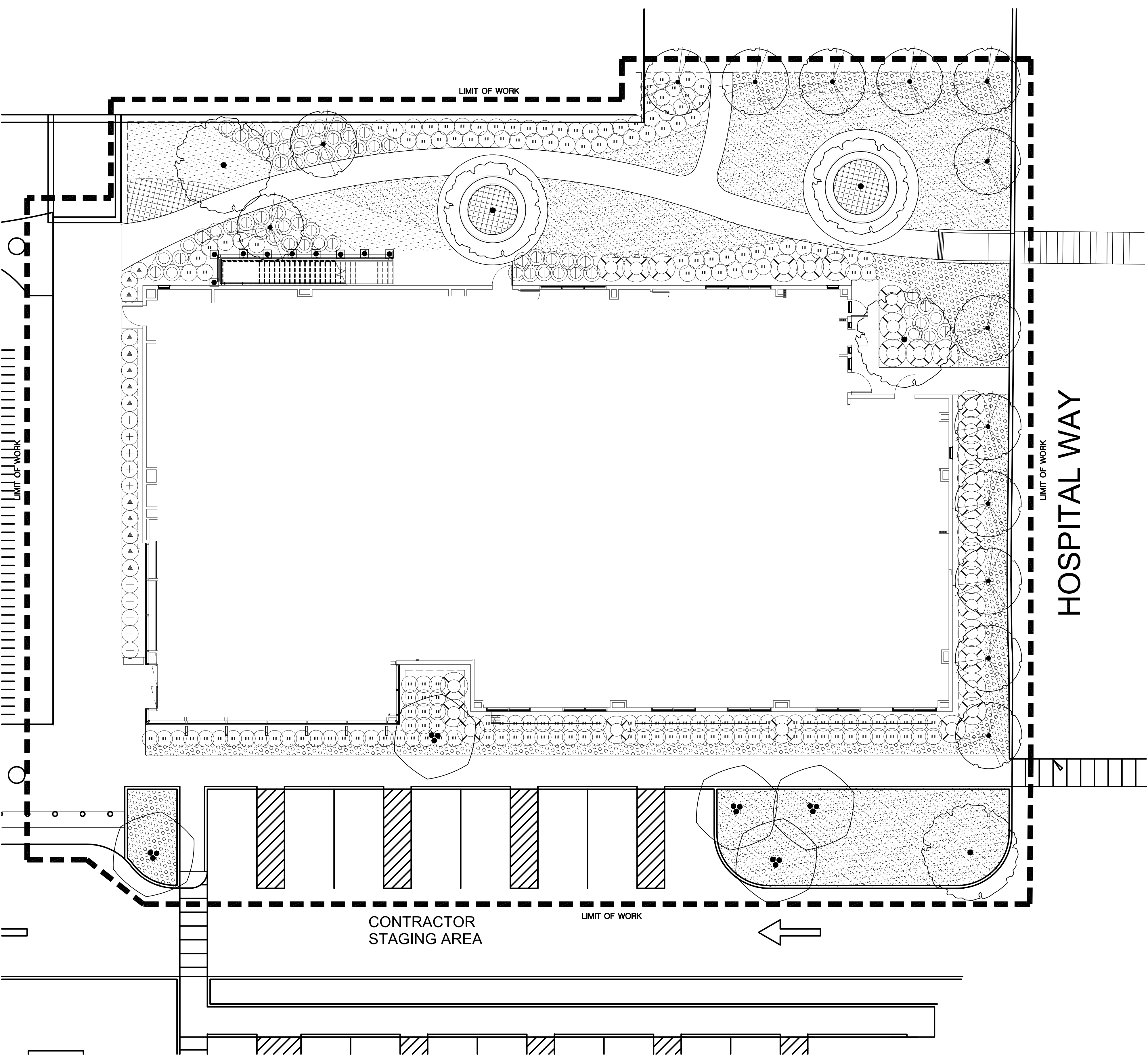
3 VINE PLANTING SCALE : N.T.S. 0/6 - VINE

PLANT LEGEND

SYMBOL	Botanical name (Common Name)	SIZE	SPACING	WUCOLS
TREES				
	Arbutus unedo (Strawberry Tree)	36" Box		Very Low
	Quercus lobata (Valley Oak)	36" Box		Low
	Lagerstroemia indica 'Natchez' (Crape Myrtle)	36" Box	Std.	Low
SHRUBS				
	Rhamnus californica 'Leatherleaf' (Coffeeberry)	5 Gal.	5' O.C.	Low
	Loropetalum chinensis - Greenleaf (Fringe Flower)	5 Gal.	36" O.C.	Low
	Loropetalum chinensis 'Sizzling Pink' (Fringe Flower)	5 Gal.	36" O.C.	Low
	Coprosma x kirkii (Creeping Coprosma)	5 Gal.	36" O.C.	Low
	Nandina domestica (Heavenly Bamboo)	5 Gal.	36" O.C.	Low
GRASSES				
	Bolero 100% Dwarf Fescue	Sod	Delta Bluegrass	Medium
GROUNDCOVERS				
	Epilobium canum canum (California Fuchsia)	1 Gal.	24" O.C.	Low
	Rosmarinus officinalis 'Prostratus' (Creeping Rosemary)	1 Gal.	24" O.C.	Low
	Mahonia repens (Creeping Mahonia)	1 Gal.	24" O.C.	Low
VINES				
	Maccladyens unguis-cati (Cats Claw)	5 Gal.	As shown	Low

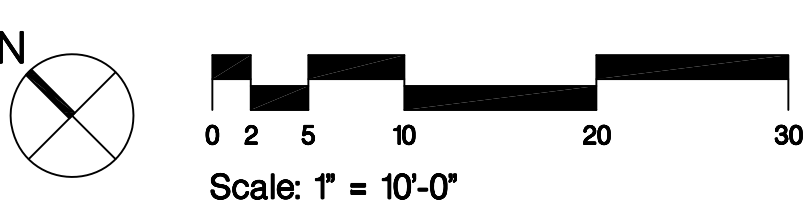


4 GROUNDCOVER LAYOUT SCALE : N.T.S. 001 - GROUNDCOVER



Planting Notes

- Plant material locations shown are diagrammatic and may be subject to change in the field by landscape architect.
- Groundcover symbols are diagrammatic only. See groundcover detail for plant spacing.
- Landscape contractor shall report any discrepancies in the plan to the landscape architect.
- Trees shall be planted no closer than 3'-6" from face of curb.
- Plant spacing has been determined to attain desirable impact at time of planting, based upon future maintenance practices and changing environmental conditions, future thinning of plant material shall occur.
- All newly landscaped areas, except turf, shall receive 2" of bark mulch per specifications.



CONSULTANTS: SMITH+SMITH P: (415) 543-0332 F: (415) 543-9740 1501 North Point Street San Francisco, CA 94123 www.smith2.com		KEY PLAN	ARCHITECT/ENGINEERS: MEI architecture + interiors 229 9TH STREET, SUITE 201, SAN FRANCISCO, CA 94103 T: (415) 462-7326 F: (415) 462-7339 www.meiarch.com	Drawing Title LANDSCAPE PLAN, LEGEND, NOTES & DETAILS	Project Title CONSOLIDATE / EXPAND MEDICAL PROCEDURES MINOR (CEMP)	Project Number 612-111	Office of Facilities Management Department of Veterans Affairs
Issues & Revisions: Date				Approved: Project Director	Location VANCHCS - MATHER, CA	Building Number	
LANDSCAPE ARCHITECTS				Date APRIL 22, 2014	Checked MMC	Drawn MMC/BF	L3.0 Dwg. -- of --